Isaac Antolin

List of Publications by Year
in descending order

64	5,289	159585	123424
papers	citations	30 h-index	61 g-index

64	64	64	5131
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.	7.4	1,713
2	Neurohormone melatonin prevents cell damage: effect on gene expression for antioxidant enzymes. FASEB Journal, 1996, 10, 882-890.	0.5	438
3	Melatonin increases gene expression for antioxidant enzymes in rat brain cortex. Journal of Pineal Research, 1998, 24, 83-89.	7.4	287
4	Melatonin regulation of antioxidant enzyme gene expression. Cellular and Molecular Life Sciences, 2002, 59, 1706-1713.	5.4	241
5	Antioxidant properties of the melatonin metabolite N1-acetyl-5-methoxykynuramine (AMK): scavenging of free radicals and prevention of protein destruction. Redox Report, 2003, 8, 205-213.	4.5	215
6	Protective effect of melatonin in a chronic experimental model of Parkinsonâ€™s disease. Brain Research, 2002, 943, 163-173.	2.2	148
7	Melatonin prevents apoptosis induced by 6-hydroxydopamine in neuronal cells: Implications for Parkinson's disease. Journal of Pineal Research, 1998, 24, 179-192.	7.4	138
8	Melatonin and Parkinson's Disease. Endocrine, 2005, 27, 169-178.	2.2	129
9	Intracellular Signaling Pathways Involved in the Cell Growth Inhibition of Glioma Cells by Melatonin. Cancer Research, 2006, 66, 1081-1088.	0.9	129
10	The pineal neurohormone melatonin prevents in vivo and in vitro apoptosis in thymocytes. Journal of Pineal Research, 1995, 19, 178-188.	7.4	122
11	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.	7.4	114
12	Melatonin-induced methylation of the ABCG2/BCRP promoter as a novel mechanism to overcome multidrug resistance in brain tumour stem cells. British Journal of Cancer, 2013, 108, 2005-2012.	6.4	108
13	Melatonin induces apoptosis in human neuroblastoma cancer cells. Journal of Pineal Research, 2006, 41, 130-135.	7.4	97
14	Melatonin regulates glucocorticoid receptor: an answer to its antiapoptotic action in thymus. FASEB Journal, 1999, 13, 1547-1556.	0.5	92
15	Mechanisms Involved in the Pro-Apoptotic Effect of Melatonin in Cancer Cells. International Journal of Molecular Sciences, 2013, 14, 6597-6613.	4.1	83
16	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.	3.9	70
17	Antioxidative protection in a high-melatonin organism: The dinoflagellate Gonyaulax polyedra is rescued from lethal oxidative stress by strongly elevated, but physiologically possible concentrations of melatonin. Journal of Pineal Research, 1997, 23, 182-190.	7.4	66
18	Intracellular signaling pathways involved in postâ€mitotic dopaminergic PC12 cell death induced by 6â€hydroxydopamine. Journal of Neurochemistry, 2008, 107, 127-140.	3.9	62

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19	Several antioxidant pathways are involved in astrocyte protection by melatonin. Journal of Pineal Research, 2002, 33, 204-212.	7.4	59
20	Intracellular redox state as determinant for melatonin antiproliferative vs cytotoxic effects in cancer cells. Free Radical Research, 2011, 45, 1333-1341.	3.3	59
21	Ultrastructural confirmation of neuronal protection by melatonin against the neurotoxin 6-hydroxydopamine cell damage. Brain Research, 1999, 818, 221-227.	2.2	56
22	Melatonin sensitizes human malignant glioma cells against TRAIL-induced cell death. Cancer Letters, 2010, 287, 216-223.	7.2	56
23	Melatonin Cytotoxicity Is Associated to Warburg Effect Inhibition in Ewing Sarcoma Cells. PLoS ONE, 2015, 10, e0135420.	2.5	55
24	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.	7.4	44
25	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.	7.4	43
26	Involvement of autophagy in melatoninâ€induced cytotoxicity in gliomaâ€initiating cells. Journal of Pineal Research, 2014, 57, 308-316.	7.4	43
27	Signaling pathways involved in antioxidant control of glioma cell proliferation. Free Radical Biology and Medicine, 2007, 42, 1715-1722.	2.9	39
28	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.	7.4	36
29	Daily Rhythm of Gene Expression in Rat Superoxide Dismutases. Endocrine Research, 2003, 29, 83-95.	1.2	34
30	Intracellular redox state regulation by parthenolide. Biochemical and Biophysical Research Communications, 2005, 332, 321-325.	2.1	33
31	Fas/Fas ligand regulation mediates cell death in human Ewing's sarcoma cells treated with melatonin. British Journal of Cancer, 2012, 106, 1288-1296.	6.4	31
32	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.	2.9	30
33	Porphyrin accumulation in the harderian glands of female Syrian hamster results in mitochondrial damage and cell death. The Anatomical Record, 1994, 239, 349-359.	1.8	29
34	Involvement of protein kinase C in melatonin?s oncostatic effect in C6 glioma cells. Journal of Pineal Research, 2007, 43, 239-244.	7.4	29
35	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.	7.4	26
36	Regulation of cancer cell glucose metabolism is determinant for cancer cell fate after melatonin administration. Journal of Cellular Physiology, 2021, 236, 27-40.	4.1	24

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37	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.	2.9	22
38	Antioxidant Activity and Neuroprotective Effects of Zolpidem and Several Synthesis Intermediates. Free Radical Research, 2004, 38, 1289-1299.	3.3	22
39	Development and hormonal regulation of mast cells in the Harderian gland of Syrian hamsters. Anatomy and Embryology, 1992, 186, 91-97.	1.5	21
40	Effects of acetoacetate and d-Î²-hydroxybutyrate on bovine in vitro embryo development in serum-free medium. Theriogenology, 2002, 57, 1551-1562.	2.1	20
41	Androgen regulation of gene expression in the Syrian hamster Harderian gland. Molecular and Cellular Endocrinology, 1994, 106, 81-89.	3.2	19
42	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
43	Photoperiod and the pineal gland regulate the male phenotype of the Harderian glands of male Syrian hamsters after androgen withdrawal. Journal of Pineal Research, 1994, 17, 48-54.	7.4	16
44	Melatonin and 5-Methoxytryptamine in the Bioluminescent Dinoflagellate Gonyaulax polyedra. Advances in Experimental Medicine and Biology, 2002, , 387-390.	1.6	15
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.	4.1	15
46	Castration Increases Cell Damage Induced by Porphyrins in the Harderian Gland of Male Syrian Hamster. Necrosis and Not Apoptosis Mediates the Subsequent Cell Death. Journal of Structural Biology, 1996, 116, 377-389.	2.8	14
47	Antioxidants do not prevent acrylonitrile-induced toxicity. Toxicology Letters, 2007, 169, 236-244.	0.8	14
48	The harderian gland of the rodent octodon degus: A structural and ultrastructural study. Tissue and Cell, 1993, 25, 129-139.	2.2	13
49	Androgen-dependent mast cell degranulation in the Harderian gland of female Syrian hamsters: in vivo and organ culture evidence. Anatomy and Embryology, 1997, 196, 133-140.	1.5	13
50	Cytotoxicity and oncostatic activity of the thiazolidinedione derivative CGP 52608 on central nervous system cancer cells. Cancer Letters, 2004, 211, 47-55.	7.2	11
51	Lymphoid cells in the harderian gland of the rodentOctodon degus. The Anatomical Record, 1992, 234, 438-442.	1.8	10
52	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.	1.8	10
53	Melatonin decreases mRNA for histone h4 in thymus of young rats. Life Sciences, 1998, 63, 1109-1117.	4.3	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.	3.2	8

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55	Invasive processes in the normal Harderian gland of Syrian hamster. Microscopy Research and Technique, 1996, 34, 55-64.	2.2	7
56	Regulation of the aminolevulinate synthase gene in the Syrian hamster Harderian gland: Changes during development and circadian rhythm and role of some hormones. , 1996, 34, 65-70.		6
57	Isolation and identification of sex-specific cDNA clones from the Syrian hamster Harderian gland. Microscopy Research and Technique, 1996, 34, 111-117.	2.2	6
58	Mast cells in the Harderian gland of female syrian hamsters during the estrous cycle and pregnancy: effects of the light/dark cycle. Journal of Reproductive Immunology, 1993, 25, 51-61.	1.9	5
59	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.	3.8	5
60	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.	2.6	5
61	The pineal gland of the trumpet-tailed rat (Octodon degus). Journal of Pineal Research, 1992, 13, 174-183.	7.4	3
62	Ultrastructure and Development of Vitrified/Warmed Bovine Oocytes Matured with 9-cis Retinoic Acid. Cell Preservation Technology, 2006, 4, 123-129.	0.6	3
63	Invasive processes in the normal Harderian gland of Syrian hamster. Microscopy Research and Technique, 1996, 34, 55-64.	2.2	0
64	Isolation and identification of sexâ€specific cDNA clones from the Syrian hamster Harderian gland. Microscopy Research and Technique, 1996, 34, 111-117.	2.2	0