

Rosa M Sainz

List of Publications by Year in descending order

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78
papers

11,376
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43741

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70222

77
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85
all docs

85
docs citations

85
times ranked

11023
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of antioxidant enzymes: a significant role for melatonin. <i>Journal of Pineal Research</i> , 2004, 36, 1-9.	7.7	1,745
2	Melatonin as an antioxidant: under promises but over delivers. <i>Journal of Pineal Research</i> , 2016, 61, 253-278.	7.7	1,208
3	Chemical and Physical Properties and Potential Mechanisms: Melatonin as a Broad Spectrum Antioxidant and Free Radical Scavenger. <i>Current Topics in Medicinal Chemistry</i> , 2002, 2, 181-197.	2.0	903
4	Melatonin as an antioxidant: biochemical mechanisms and pathophysiological implications in humans.. <i>Acta Biochimica Polonica</i> , 2003, 50, 1129-1146.	0.5	465
5	Melatonin: a hormone, a tissue factor, an autocoid, a paracoid, and an antioxidant vitamin. <i>Journal of Pineal Research</i> , 2003, 34, 75-78.	7.7	458
6	Neurohormone melatonin prevents cell damage: effect on gene expression for antioxidant enzymes. <i>FASEB Journal</i> , 1996, 10, 882-890.	0.5	440
7	Melatonin: reducing the toxicity and increasing the efficacy of drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 54, 1299-1321.	2.6	352
8	Melatonin and Reproduction Revisited. <i>Biology of Reproduction</i> , 2009, 81, 445-456.	2.6	334
9	Melatonin and mitochondrial function. <i>Life Sciences</i> , 2004, 75, 765-790.	4.4	293
10	Melatonin increases gene expression for antioxidant enzymes in rat brain cortex. <i>Journal of Pineal Research</i> , 1998, 24, 83-89.	7.7	288
11	Identification of highly elevated levels of melatonin in bone marrow: its origin and significance. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999, 1472, 206-214.	2.5	284
12	The changing biological roles of melatonin during evolution: from an antioxidant to signals of darkness, sexual selection and fitness. <i>Biological Reviews</i> , 2010, 85, 607-623.	10.7	282
13	Anti-inflammatory actions of melatonin and its metabolites, N1-acetyl-N2-formyl-5-methoxykynuramine (AFMK) and N1-acetyl-5-methoxykynuramine (AMK), in macrophages. <i>Journal of Neuroimmunology</i> , 2005, 165, 139-149.	2.4	278
14	N1-acetyl-N2-formyl-5-methoxykynuramine, a biogenic amine and melatonin metabolite, functions as a potent antioxidant. <i>FASEB Journal</i> , 2001, 15, 1-16.	0.5	235
15	Antioxidant properties of the melatonin metabolite N1-acetyl-5-methoxykynuramine (AMK): scavenging of free radicals and prevention of protein destruction. <i>Redox Report</i> , 2003, 8, 205-213.	4.6	217
16	Mechanistic and comparative studies of melatonin and classic antioxidants in terms of their interactions with the ABTS cation radical. <i>Journal of Pineal Research</i> , 2003, 34, 249-259.	7.7	180
17	Melatonin and sirtuins: A "so unexpected" relationship. <i>Journal of Pineal Research</i> , 2017, 62, e12391.	7.7	155
18	Protective effect of melatonin in a chronic experimental model of Parkinson's disease. <i>Brain Research</i> , 2002, 943, 163-173.	2.3	150

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19	Melatonin, xanthurenic acid, resveratrol, EGCG, vitamin C and L-ascorbic acid differentially reduce oxidative DNA damage induced by Fenton reagents: a study of their individual and synergistic actions. <i>Journal of Pineal Research</i> , 2003, 34, 269-277.	7.7	144
20	Melatonin reduces prostate cancer cell growth leading to neuroendocrine differentiation via a receptor and PKA independent mechanism. <i>Prostate</i> , 2005, 63, 29-43.	2.3	144
21	Influence of Inflammation in the Process of T Lymphocyte Differentiation: Proliferative, Metabolic, and Oxidative Changes. <i>Frontiers in Immunology</i> , 2018, 9, 339.	4.9	143
22	Melatonin and Parkinson's Disease. <i>Endocrine</i> , 2005, 27, 169-178.	2.2	131
23	The pineal neurohormone melatonin prevents in vivo and in vitro apoptosis in thymocytes. <i>Journal of Pineal Research</i> , 1995, 19, 178-188.	7.7	123
24	Melatonin uptake through glucose transporters: a new target for melatonin inhibition of cancer. <i>Journal of Pineal Research</i> , 2015, 58, 234-250.	7.7	121
25	Redox Signaling and Advanced Glycation Endproducts (AGEs) in Diet-Related Diseases. <i>Antioxidants</i> , 2020, 9, 142.	5.2	116
26	Manganese superoxide dismutase (SOD2/MnSOD)/catalase and SOD2/GPx1 ratios as biomarkers for tumor progression and metastasis in prostate, colon, and lung cancer. <i>Free Radical Biology and Medicine</i> , 2015, 85, 45-55.	4.5	101
27	Melatonin: Detoxification of Oxygen And Nitrogen-Based Toxic Reactants. <i>Advances in Experimental Medicine and Biology</i> , 2003, 527, 539-548.	0.0	96
28	Oxidative Damage to Catalase Induced by Peroxyl Radicals: Functional Protection by Melatonin and Other Antioxidants. <i>Free Radical Research</i> , 2003, 37, 543-553.	3.3	95
29	Melatonin regulates glucocorticoid receptor: an answer to its antiapoptotic action in thymus. <i>FASEB Journal</i> , 1999, 13, 1547-1556.	0.5	92
30	Melatonin reduces oxidative neurotoxicity due to quinolinic acid:. <i>Neuropharmacology</i> , 2000, 39, 507-514.	4.2	91
31	Radical Decisions in Cancer: Redox Control of Cell Growth and Death. <i>Cancers</i> , 2012, 4, 442-474.	3.8	68
32	GLUT1 protects prostate cancer cells from glucose deprivation-induced oxidative stress. <i>Redox Biology</i> , 2018, 17, 112-127.	9.1	68
33	Antioxidant activity of melatonin in Chinese hamster ovarian cells: changes in cellular proliferation and differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2003, 302, 625-634.	2.2	66
34	The dark side of glucose transporters in prostate cancer: Are they a new feature to characterize carcinomas?. <i>International Journal of Cancer</i> , 2018, 142, 2414-2424.	5.4	65
35	Several antioxidant pathways are involved in astrocyte protection by melatonin. <i>Journal of Pineal Research</i> , 2002, 33, 204-212.	7.7	61
36	Melatonin transport into mitochondria. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3927-3940.	5.5	61

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37	Melatonin reduces lipid peroxidation and tissue edema in cerulein-induced acute pancreatitis in rats. <i>Digestive Diseases and Sciences</i> , 1999, 44, 2257-2262.	2.4	60
38	Melatonin prevents glucocorticoid inhibition of cell proliferation and toxicity in hippocampal cells by reducing glucocorticoid receptor nuclear translocation. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2008, 110, 116-124.	2.6	56
39	Thioredoxin 1 modulates apoptosis induced by bioactive compounds in prostate cancer cells. <i>Redox Biology</i> , 2017, 12, 634-647.	9.1	56
40	Melatonin, Longevity and Health in the Aged: An Assessment. <i>Free Radical Research</i> , 2002, 36, 1323-1329.	3.3	55
41	Critical role of glutathione in melatonin enhancement of tumor necrosis factor and ionizing radiation-induced apoptosis in prostate cancer cells in vitro. <i>Journal of Pineal Research</i> , 2008, 45, 258-270.	7.7	55
42	<sc>IGFBP</sc>3 and <sc>MAPK</sc>/<sc>ERK</sc> signaling mediates melatonin-induced antitumor activity in prostate cancer. <i>Journal of Pineal Research</i> , 2017, 62, e12373.	7.7	55
43	Phenotypic changes caused by melatonin increased sensitivity of prostate cancer cells to cytokine-induced apoptosis. <i>Journal of Pineal Research</i> , 2013, 54, 33-45.	7.7	53
44	Regulation of GLUT Transporters by Flavonoids in Androgen-Sensitive and -Insensitive Prostate Cancer Cells. <i>Endocrinology</i> , 2014, 155, 3238-3250.	2.8	53
45	Antioxidant strategies in protection against neurodegenerative disorders. <i>Expert Opinion on Therapeutic Patents</i> , 2003, 13, 1513-1543.	5.1	52
46	Interactions between melatonin and nicotinamide nucleotide: NADH preservation in cells and in cell-free systems by melatonin. <i>Journal of Pineal Research</i> , 2005, 39, 185-194.	7.7	52
47	Melatonin uptake in prostate cancer cells: intracellular transport versus simple passive diffusion. <i>Journal of Pineal Research</i> , 2008, 45, 247-257.	7.7	48
48	Physiological Ischemia/Reperfusion Phenomena and Their Relation to Endogenous Melatonin Production: An Hypothesis. <i>Endocrine</i> , 2005, 27, 149-158.	2.2	41
49	Upregulation of manganese superoxide dismutase (SOD2) is a common pathway for neuroendocrine differentiation in prostate cancer cells. <i>International Journal of Cancer</i> , 2009, 125, 1497-1504.	5.4	40
50	Melatonin-Induced Cytoskeleton Reorganization Leads to Inhibition of Melanoma Cancer Cell Proliferation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 548.	4.2	40
51	Melatonin Decreases Glucose Metabolism in Prostate Cancer Cells: A ¹³ C Stable Isotope-Resolved Metabolomic Study. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1620.	4.2	39
52	Glutamate induces oxidative stress not mediated by glutamate receptors or cystine transporters: protective effect of melatonin and other antioxidants. <i>Journal of Pineal Research</i> , 2001, 31, 356-362.	7.7	36
53	Daily Rhythm of Gene Expression in Rat Superoxide Dismutases. <i>Endocrine Research</i> , 2003, 29, 83-95.	1.3	35
54	Advanced glycation end products (AGEs) in oral pathology. <i>Archives of Oral Biology</i> , 2018, 93, 22-30.	1.9	31

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55	Melatonin Uptake by Cells: An Answer to Its Relationship with Glucose?. <i>Molecules</i> , 2018, 23, 1999.	3.9	29
56	Apoptosis in primary lymphoid organs with aging. <i>Microscopy Research and Technique</i> , 2003, 62, 524-539.	2.3	27
57	MnSOD drives neuroendocrine differentiation, androgen independence, and cell survival in prostate cancer cells. <i>Free Radical Biology and Medicine</i> , 2011, 50, 525-536.	4.5	27
58	Development and hormonal regulation of mast cells in the Harderian gland of Syrian hamsters. <i>Anatomy and Embryology</i> , 1992, 186, 91-97.	1.4	21
59	Advanced Glycation End Products As Biomarkers in Systemic Diseases: Premises and Perspectives of Salivary Advanced Glycation End Products. <i>Biomarkers in Medicine</i> , 2019, 13, 479-495.	1.4	19
60	Castration Increases Cell Damage Induced by Porphyrins in the Harderian Gland of Male Syrian Hamster. Necrosis and Not Apoptosis Mediates the Subsequent Cell Death. <i>Journal of Structural Biology</i> , 1996, 116, 377-389.	2.9	14
61	Melatonin Enhances Photo-Oxidation of 2,7-Dichlorodihydrofluorescein by an Antioxidant Reaction That Renders N1-Acetyl-N2-Formyl-5-Methoxykynuramine (AFMK). <i>PLoS ONE</i> , 2014, 9, e109257.	2.5	14
62	Androgen-dependent mast cell degranulation in the Harderian gland of female Syrian hamsters: in vivo and organ culture evidence. <i>Anatomy and Embryology</i> , 1997, 196, 133-140.	1.4	13
63	Cytotoxicity and oncostatic activity of the thiazolidinedione derivative CGP 52608 on central nervous system cancer cells. <i>Cancer Letters</i> , 2004, 211, 47-55.	7.3	13
64	In Vitro Evaluation of the Toxicological Profile and Oxidative Stress of Relevant Diet-Related Advanced Glycation End Products and Related 1,2-Dicarbonyls. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-20.	4.1	13
65	Photoacoustic Tomography Detects Response and Resistance to Bevacizumab in Breast Cancer Mouse Models. <i>Cancer Research</i> , 2022, 82, 1658-1668.	0.9	11
66	Emerging Roles for Browning of White Adipose Tissue in Prostate Cancer Malignant Behaviour. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5560.	4.2	10
67	Cell volume and geometric parameters determination in living cells using confocal microscopy and 3D reconstruction. <i>Protocol Exchange</i> , 0, , .	0.3	10
68	Understanding the role of melatonin in cancer metabolism. <i>Melatonin Research</i> , 2019, 2, 76-104.	1.1	7
69	Androgen-Dependent Prostate Cancer Cells Reprogram Their Metabolic Signature upon GLUT1 Upregulation by Manganese Superoxide Dismutase. <i>Antioxidants</i> , 2022, 11, 313.	5.2	7
70	Regulation of the aminolevulinic synthase gene in the Syrian hamster Harderian gland: Changes during development and circadian rhythm and role of some hormones. <i>Microscopy Research and Technique</i> , 1996, 34, 65-70.	2.3	6
71	Development and validation of a single HPLC method for determination of α -tocopherol in cell culture and in human or mouse biological samples. <i>Biomedical Chromatography</i> , 2015, 29, 843-852.	1.7	6
72	Melatonin from an Antioxidant to a Classic Hormone or a Tissue Factor: Experimental and Clinical Aspects 2019. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3645.	4.2	6

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73	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.	2.0	5
74	Reflections on the Biology of Cell Culture Models: Living on the Edge of Oxidative Metabolism in Cancer Cells. International Journal of Molecular Sciences, 2023, 24, 2717.	4.2	3
75	Apoptotic Signals: Possible Implication of Circadian Rhythms. , 2000, , 203-233.		1
76	Redox control of the transcriptional circadian rhythmicity by SOD2. Free Radical Biology and Medicine, 2021, 165, 27.	4.5	0
77	The role of androgen receptor in glucose transporters expression in prostate cancer cells. Endocrine Abstracts, 0, , .	0.0	0
78	Glucose Transporters Protect Cancer Cells From Nutrient Deprivation. , 2018, , .		0