

# Juan C Mayo

## List of Publications by Year in descending order

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101  
papers

12,076  
citations

38742

50  
h-index

43889

91  
g-index

107  
all docs

107  
docs citations

107  
times ranked

10496  
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.	7.4	1,713
2	Melatonin as an antioxidant: under promises but over delivers. <i>Journal of Pineal Research</i> , 2016, 61, 253-278.	7.4	1,126
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.	2.1	885
4	Melatonin as an antioxidant: biochemical mechanisms and pathophysiological implications in humans.. <i>Acta Biochimica Polonica</i> , 2003, 50, 1129-1146.	0.5	457
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.	7.4	449
6	Neurohormone melatonin prevents cell damage: effect on gene expression for antioxidant enzymes. <i>FASEB Journal</i> , 1996, 10, 882-890.	0.5	438
7	Melatonin: reducing the toxicity and increasing the efficacy of drugs. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 54, 1299-1321.	2.4	349
8	Melatonin and Reproduction Revisited. <i>Biology of Reproduction</i> , 2009, 81, 445-456.	2.7	320
9	Melatonin and mitochondrial function. <i>Life Sciences</i> , 2004, 75, 765-790.	4.3	286
10	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.	2.4	278
11	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.	2.3	274
12	Melatonin and cell death: differential actions on apoptosis in normal and cancer cells. <i>Cellular and Molecular Life Sciences</i> , 2003, 60, 1407-1426.	5.4	266
13	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.	10.4	252
14	The Oxidant/Antioxidant Network: Role of Melatonin. <i>NeuroSignals</i> , 1999, 8, 56-63.	0.9	242
15	Melatonin regulation of antioxidant enzyme gene expression. <i>Cellular and Molecular Life Sciences</i> , 2002, 59, 1706-1713.	5.4	241
16	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	232
17	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.	4.5	215
18	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.	7.4	178

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19	Melatonin and sirtuins: A "unexpected" relationship. <i>Journal of Pineal Research</i> , 2017, 62, e12391.	7.4	149
20	Protective effect of melatonin in a chronic experimental model of Parkinson's disease. <i>Brain Research</i> , 2002, 943, 163-173.	2.2	148
21	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	142
22	Melatonin, xanthurenic acid, resveratrol, EGCG, vitamin C and lipoic 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.	7.4	141
23	Melatonin prevents apoptosis induced by 6-hydroxydopamine in neuronal cells: Implications for Parkinson's disease. <i>Journal of Pineal Research</i> , 1998, 24, 179-192.	7.4	138
24	Influence of Inflammation in the Process of T Lymphocyte Differentiation: Proliferative, Metabolic, and Oxidative Changes. <i>Frontiers in Immunology</i> , 2018, 9, 339.	4.8	133
25	Melatonin and Parkinson's Disease. <i>Endocrine</i> , 2005, 27, 169-178.	2.2	129
26	Protection against oxidative protein damage induced by metal-catalyzed reaction or alkylperoxyl radicals: comparative effects of melatonin and other antioxidants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1620, 139-150.	2.4	124
27	The pineal neurohormone melatonin prevents in vivo and in vitro apoptosis in thymocytes. <i>Journal of Pineal Research</i> , 1995, 19, 178-188.	7.4	122
28	Melatonin as a Pharmacological Agent against Neuronal Loss in Experimental Models of Huntington's Disease, Alzheimer's Disease and Parkinsonism. <i>Annals of the New York Academy of Sciences</i> , 1999, 890, 471-485.	3.8	115
29	Melatonin uptake through glucose transporters: a new target for melatonin inhibition of cancer. <i>Journal of Pineal Research</i> , 2015, 58, 234-250.	7.4	114
30	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.	2.9	99
31	Redox Signaling and Advanced Glycation Endproducts (AGEs) in Diet-Related Diseases. <i>Antioxidants</i> , 2020, 9, 142.	5.1	98
32	Melatonin: Detoxification of Oxygen And Nitrogen-Based Toxic Reactants. <i>Advances in Experimental Medicine and Biology</i> , 2003, 527, 539-548.	1.6	95
33	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	93
34	Melatonin regulates glucocorticoid receptor: an answer to its antiapoptotic action in thymus. <i>FASEB Journal</i> , 1999, 13, 1547-1556.	0.5	92
35	Melatonin reduces oxidative neurotoxicity due to quinolinic acid. <i>Neuropharmacology</i> , 2000, 39, 507-514.	4.1	90
36	Carbon Quantum Dots Codoped with Nitrogen and Lanthanides for Multimodal Imaging. <i>Advanced Functional Materials</i> , 2019, 29, 1903884.	14.9	76

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37	Radical Decisions in Cancer: Redox Control of Cell Growth and Death. <i>Cancers</i> , 2012, 4, 442-474.	3.7	66
38	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.	2.1	65
39	Melatonin Ameliorates Neurologic Damage and Neurophysiologic Deficits in Experimental Models of Stroke. <i>Annals of the New York Academy of Sciences</i> , 2003, 993, 35-47.	3.8	61
40	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.	5.1	61
41	Melatonin reduces lipid peroxidation and tissue edema in cerulein-induced acute pancreatitis in rats. <i>Digestive Diseases and Sciences</i> , 1999, 44, 2257-2262.	2.3	60
42	GLUT1 protects prostate cancer cells from glucose deprivation-induced oxidative stress. <i>Redox Biology</i> , 2018, 17, 112-127.	9.0	60
43	Several antioxidant pathways are involved in astrocyte protection by melatonin. <i>Journal of Pineal Research</i> , 2002, 33, 204-212.	7.4	59
44	Melatonin transport into mitochondria. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 3927-3940.	5.4	57
45	Ultrastructural confirmation of neuronal protection by melatonin against the neurotoxin 6-hydroxydopamine cell damage. <i>Brain Research</i> , 1999, 818, 221-227.	2.2	56
46	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.	7.4	55
47	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.	2.5	55
48	Thioredoxin 1 modulates apoptosis induced by bioactive compounds in prostate cancer cells. <i>Redox Biology</i> , 2017, 12, 634-647.	9.0	55
49	Melatonin, Longevity and Health in the Aged: An Assessment. <i>Free Radical Research</i> , 2002, 36, 1323-1329.	3.3	54
50	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.	7.4	53
51	Antioxidant strategies in protection against neurodegenerative disorders. <i>Expert Opinion on Therapeutic Patents</i> , 2003, 13, 1513-1543.	5.0	51
52	<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.	7.4	51
53	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.	7.4	50
54	Regulation of GLUT Transporters by Flavonoids in Androgen-Sensitive and -Insensitive Prostate Cancer Cells. <i>Endocrinology</i> , 2014, 155, 3238-3250.	2.8	49

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55	Critical evaluation of fast and highly resolved elemental distribution in single cells using LA-ICP-SFMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 655-663.	3.0	47
56	Melatonin uptake in prostate cancer cells: intracellular transport versus simple passive diffusion. <i>Journal of Pineal Research</i> , 2008, 45, 247-257.	7.4	46
57	Melatonin and its derivatives cyclic 3-hydroxymelatonin, N 1 -acetyl-N 2 -formyl-5-methoxykynuramine and 6-methoxymelatonin reduce oxidative DNA damage induced by Fenton reagents. <i>Journal of Pineal Research</i> , 2003, 34, 178-184.	7.4	44
58	Inhibition of cell proliferation: A mechanism likely to mediate the prevention of neuronal cell death by melatonin. <i>Journal of Pineal Research</i> , 1998, 25, 12-18.	7.4	43
59	Physiological Ischemia/Reperfusion Phenomena and Their Relation to Endogenous Melatonin Production: An Hypothesis. <i>Endocrine</i> , 2005, 27, 149-158.	2.2	40
60	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.	5.1	38
61	Melatonin Decreases Glucose Metabolism in Prostate Cancer Cells: A <sup>13</sup> C Stable Isotope-Resolved Metabolomic Study. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1620.	4.1	38
62	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.	7.4	36
63	Daily Rhythm of Gene Expression in Rat Superoxide Dismutases. <i>Endocrine Research</i> , 2003, 29, 83-95.	1.2	34
64	Melatonin-Induced Cytoskeleton Reorganization Leads to Inhibition of Melanoma Cancer Cell Proliferation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 548.	4.1	34
65	Melatonin Uptake by Cells: An Answer to Its Relationship with Glucose?. <i>Molecules</i> , 2018, 23, 1999.	3.8	28
66	Apoptosis in primary lymphoid organs with aging. <i>Microscopy Research and Technique</i> , 2003, 62, 524-539.	2.2	27
67	MnSOD drives neuroendocrine differentiation, androgen independence, and cell survival in prostate cancer cells. <i>Free Radical Biology and Medicine</i> , 2011, 50, 525-536.	2.9	27
68	Cellular Uptake and Tissue Biodistribution of Functionalized Gold Nanoparticles and Nanoclusters. <i>Journal of Biomedical Nanotechnology</i> , 2017, 13, 167-179.	1.1	25
69	5-methoxytryptophol preserves hepatic microsomal membrane fluidity during oxidative stress. , 2000, 76, 651-657.		22
70	Development and hormonal regulation of mast cells in the Harderian gland of Syrian hamsters. <i>Anatomy and Embryology</i> , 1992, 186, 91-97.	1.5	21
71	Monitoring intracellular melatonin levels in human prostate normal and cancer cells by HPLC. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1235-1244.	3.7	17
72	Development and validation of new methods for the determination of melatonin and its oxidative metabolites by high performance liquid chromatography and capillary electrophoresis, using multivariate optimization. <i>Journal of Chromatography A</i> , 2010, 1217, 1368-1374.	3.7	15

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73	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.	2.8	14
74	Antioxidants do not prevent acrylonitrile-induced toxicity. <i>Toxicology Letters</i> , 2007, 169, 236-244.	0.8	14
75	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
76	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.	1.5	13
77	Cytotoxicity and oncostatic activity of the thiazolidinedione derivative CGP 52608 on central nervous system cancer cells. <i>Cancer Letters</i> , 2004, 211, 47-55.	7.2	11
78	Cell volume and geometric parameters determination in living cells using confocal microscopy and 3D reconstruction. <i>Protocol Exchange</i> , 0, , .	0.3	10
79	Changes in lipid peroxidation during pregnancy and after delivery in rats: effect of pinealectomy. <i>Reproduction</i> , 2000, , 143-149.	2.6	10
80	Melatonin decreases mRNA for histone h4 in thymus of young rats. <i>Life Sciences</i> , 1998, 63, 1109-1117.	4.3	9
81	Emerging Roles for Browning of White Adipose Tissue in Prostate Cancer Malignant Behaviour. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5560.	4.1	9
82	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.	4.0	9
83	Understanding the role of melatonin in cancer metabolism. <i>Melatonin Research</i> , 2019, 2, 76-104.	1.1	7
84	Development and validation of a single HPLC method for determination of $\alpha$ -tocopherol in cell culture and in human or mouse biological samples. <i>Biomedical Chromatography</i> , 2015, 29, 843-852.	1.7	6
85	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.	4.1	6
86	Mast cells in the Harderian gland of female syrian hamsters during the estrous cycle and pregnancy: effects of the light/dark cycle. <i>Journal of Reproductive Immunology</i> , 1993, 25, 51-61.	1.9	5
87	Androgen-Dependent Prostate Cancer Cells Reprogram Their Metabolic Signature upon GLUT1 Upregulation by Manganese Superoxide Dismutase. <i>Antioxidants</i> , 2022, 11, 313.	5.1	5
88	Beer constituents inhibit prostate cancer cells proliferation. <i>European Journal of Cancer, Supplement</i> , 2008, 6, 142.	2.2	4
89	Antioxidant strategies in protection against neurodegenerative disorders. <i>Expert Opinion on Therapeutic Patents</i> , 2003, 13, 1513-1543.	5.0	2
90	1021 A New Protocol for Determining Intracellular Concentrations of Antitumor Compounds – How to Calculate a Real and Effective IC50. <i>European Journal of Cancer</i> , 2012, 48, S246.	2.8	1

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91	GLUT1/GLUT4 balance is a marker of androgen-insensitivity in prostate cancer. European Journal of Cancer, 2016, 61, S41.	2.8	1
92	Apoptotic Signals: Possible Implication of Circadian Rhythms. , 2000, , 203-233.		1
93	MAPK/ERK signaling mediates melatonin-induced neuroendocrine differentiation in prostate cancer cells. European Journal of Cancer, Supplement, 2008, 6, 86.	2.2	0
94	830 Bi-phasic Profile of MnSOD During Tumor Progression in Prostate Cancer. European Journal of Cancer, 2012, 48, S199.	2.8	0
95	1022 Sensitivity of Prostatic Neuroendocrine like Cells to Anti-tumor Drugs. European Journal of Cancer, 2012, 48, S246-S247.	2.8	0
96	Evaluation of sulfur isotopic enrichment of urine metabolites for the differentiation of healthy and prostate cancer mice after the administration of <sup>34</sup> S labelled yeast. Journal of Trace Elements in Medicine and Biology, 2017, 39, 155-161.	3.0	0
97	Redox control of the transcriptional circadian rhythmicity by SOD2. Free Radical Biology and Medicine, 2021, 165, 27.	2.9	0
98	Androgen-dependent prostate cancer cells reprogram their metabolic signature upon Glut-1 upregulation by Manganese Superoxide Dismutase (Mnsod/SOD2). Free Radical Biology and Medicine, 2021, 165, 53-54.	2.9	0
99	The role of androgen receptor in glucose transporters expression in prostate cancer cells. Endocrine Abstracts, 0, , .	0.0	0
100	Glucose Transporters Protect Cancer Cells From Nutrient Deprivation. , 2018, , .		0
101	Invasive processes in the normal Harderian gland of Syrian hamster. Microscopy Research and Technique, 1996, 34, 55-64.	2.2	0