Fernanda G Amaral

List of Publications by Year
in descending order

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58 papers	2,465 citations	257450 24 h-index	214800 47 g-index
59 all docs	59 docs citations	59 times ranked	3108 citing authors

#	Article	IF	Citations
1	Melatonin, energy metabolism, and obesity: a review. Journal of Pineal Research, 2014, 56, 371-381.	7.4	425
2	Melatonin as a Hormone: New Physiological and Clinical Insights. Endocrine Reviews, 2018, 39, 990-1028.	20.1	366
3	A brief review about melatonin, a pineal hormone. Archives of Endocrinology and Metabolism, 2018, 62, 472-479.	0.6	233
4	Absence of Melatonin Induces Night-Time Hepatic Insulin Resistance and Increased Gluconeogenesis Due to Stimulation of Nocturnal Unfolded Protein Response. Endocrinology, 2011, 152, 1253-1263.	2.8	100
5	Melatonin prevents mitochondrial dysfunction and insulin resistance in rat skeletal muscle. Journal of Pineal Research, 2014, 57, 155-167.	7.4	87
6	Environmental Control of Biological Rhythms: Effects on Development, Fertility and Metabolism. Journal of Neuroendocrinology, 2014, 26, 603-612.	2.6	67
7	Maternal Melatonin Programs the Daily Pattern of Energy Metabolism in Adult Offspring. PLoS ONE, 2012, 7, e38795.	2.5	66
8	Melatonin improves insulin sensitivity independently of weight loss in old obese rats. Journal of Pineal Research, 2013, 55, 156-165.	7.4	65
9	Melatonin synthesis impairment as a new deleterious outcome of diabetesâ€derived hyperglycemia. Journal of Pineal Research, 2014, 57, 67-79.	7.4	60
10	The Angiotensin-Melatonin Axis. International Journal of Hypertension, 2013, 2013, 1-7.	1.3	58
11	Daily differential expression of melatoninâ€related genes and clock genes in rat cumulusâ€“oocyte complex: changes after pinealectomy. Journal of Pineal Research, 2015, 58, 490-499.	7.4	56
12	Melatonin Synthesis: Acetylserotonin O-Methyltransferase (ASMT) Is Strongly Expressed in a Subpopulation of Pinealocytes in the Male Rat Pineal Gland. Endocrinology, 2016, 157, 2028-2040.	2.8	53
13	Pinealectomy interferes with the circadian clock genes expression in white adipose tissue. Journal of Pineal Research, 2015, 58, 251-261.	7.4	52
14	Melatonin, mitochondria and hypertension. Cellular and Molecular Life Sciences, 2017, 74, 3955-3964.	5.4	51
15	Early-Stage Retinal Melatonin Synthesis Impairment in Streptozotocin-Induced Diabetic Wistar Rats. , 2011, 52, 7416.		48
16	The absence of maternal pineal melatonin rhythm during pregnancy and lactation impairs offspring physical growth, neurodevelopment, and behavior. Hormones and Behavior, 2018, 105, 146-156.	2.1	48
17	Melatonin Increases Brown Adipose Tissue Volume and Activity in Patients With Melatonin Deficiency: A Proof-of-Concept Study. Diabetes, 2019, 68, 947-952.	0.6	44
18	Adaptations of the aging animal to exercise: role of daily supplementation with melatonin. Journal of Pineal Research, 2013, 55, 229-239.	7.4	39

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19	New insights into the function of melatonin and its role in metabolic disturbances. Expert Review of Endocrinology and Metabolism, 2019, 14, 293-300.	2.4	39
20	Insulin modulates norepinephrine-mediated melatonin synthesis in cultured rat pineal gland. Life Sciences, 2008, 82, 108-114.	4.3	38
21	Influence of Nâ€methylâ€Dâ€aspartate receptors on ouabain activation of nuclear factorâ€ÎºB in the rat hippocampus. Journal of Neuroscience Research, 2012, 90, 213-228.	2.9	35
22	Effects of melatonin on DNA damage induced by cyclophosphamide in rats. Brazilian Journal of Medical and Biological Research, 2013, 46, 278-286.	1.5	34
23	Melatonin Production in the Sea Star Echinaster brasiliensis (Echinodermata). Biological Bulletin, 2014, 226, 146-151.	1.8	33
24	Insulin temporal sensitivity and its signaling pathway in the rat pineal gland. Life Sciences, 2010, 87, 169-174.	4.3	29
25	Melatonin attenuates renal sympathetic overactivity and reactive oxygen species in the brain in neurogenic hypertension. Hypertension Research, 2019, 42, 1683-1691.	2.7	27
26	Ethanol consumption and pineal melatonin daily profile in rats. Addiction Biology, 2011, 16, 580-590.	2.6	25
27	Melatonin multiple effects on brown adipose tissue molecular machinery. Journal of Pineal Research, 2019, 66, e12549.	7.4	25
28	Modulation of Pineal Melatonin Synthesis by Glutamate Involves Paracrine Interactions between Pinealocytes and Astrocytes through NF-ÎºB Activation. BioMed Research International, 2013, 2013, 1-14.	1.9	24
29	Maternal pineal melatonin in gestation and lactation physiology, and in fetal development and programming. General and Comparative Endocrinology, 2021, 300, 113633.	1.8	22
30	Melanopsin System Dysfunction in Smith-Magenis Syndrome Patients. , 2018, 59, 362.		21
31	Norepinephrine activates NF-ÎºB transcription factor in cultured rat pineal gland. Life Sciences, 2014, 94, 122-129.	4.3	19
32	Altered MT1 and MT2 melatonin receptors expression in the hippocampus of pilocarpine-induced epileptic rats. Epilepsy and Behavior, 2017, 71, 23-34.	1.7	18
33	Melatonin profiles during the third trimester of pregnancy and health status in the offspring among day and night workers: A case series. Neurobiology of Sleep and Circadian Rhythms, 2019, 6, 70-76.	2.8	18
34	Pilocarpine-induced epilepsy alters the expression and daily variation of the nuclear receptor RORÎ± in the hippocampus of rats. Epilepsy and Behavior, 2016, 55, 38-46.	1.7	13
35	High social jetlag is correlated with nocturnal inhibition of melatonin production among night workers. Chronobiology International, 2021, 38, 1170-1176.	2.0	12
36	Melatonin decreases neuronal excitability in a sub-population of dorsal root ganglion neurons. Brain Research, 2018, 1692, 1-8.	2.2	11

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37	Identification of insulin-regulated aminopeptidase (IRAP) in the rat pineal gland and the modulation of melatonin synthesis by angiotensin IV. Brain Research, 2019, 1704, 40-46.	2.2	10
38	Melatonin Therapy Improves Cardiac Autonomic Modulation in Pinealectomized Patients. Frontiers in Endocrinology, 2020, 11, 239.	3.5	10
39	Current understanding of pineal gland structure and function in headache. Cephalalgia, 2019, 39, 1700-1709.	3.9	9
40	Reduced melatonin synthesis in pregnant night workers: Metabolic implications for offspring. Medical Hypotheses, 2019, 132, 109353.	1.5	9
41	Melatonin deficiency decreases brown adipose tissue acute thermogenic capacity of in rats measured by 18F-FDG PET. Diabetology and Metabolic Syndrome, 2020, 12, 82.	2.7	9
42	Effect of different exercise intensities on the pancreas of animals with metabolic syndrome. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2015, 8, 115.	2.4	8
43	The muscarinic effect of anhydroecgonine methyl ester, a crack cocaine pyrolysis product, impairs melatonin synthesis in the rat pineal gland. Toxicology Research, 2017, 6, 420-431.	2.1	8
44	Melatonin regulates maternal pancreatic remodeling and Bâ€cell function during pregnancy and lactation. Journal of Pineal Research, 2021, 71, e12717.	7.4	7
45	The Absence of Pineal Melatonin Abolishes the Daily Rhythm of Tph1 (Tryptophan Hydroxylase 1), Asmt (Acetylserotonin O-Methyltransferase), and Aanat (Aralkylamine N-Acetyltransferase) mRNA Expressions in Rat Testes. Molecular Neurobiology, 2019, 56, 7800-7809.	4.0	6
46	Rhythmic changes in Fabry disease: Inversion and non-oscillatory pattern in 6-sulfatoxymelatonin daily profile. Chronobiology International, 2019, 36, 470-480.	2.0	5
47	Effective recommendations towards healthy routines to preserve mental health during the COVID-19 pandemic. Revista Brasileira De Psiquiatria, 2022, 44, 136-146.	1.7	5
48	Molecular characterization of different preproGnRHs in Astyanax altiparanae (Characiformes): Effects of GnRH on female reproduction. Molecular Reproduction and Development, 2020, 87, 720-734.	2.0	4
49	Urinary Angiotensinogen-Melatonin Ratio in Gestational Diabetes and Preeclampsia. Frontiers in Molecular Biosciences, 2022, 9, 800638.	3.5	4
50	Sleep parameters assessed by actigraphy in Fabry's disease patients: a proof-of-concept. Sleep Medicine, 2020, 69, 213-216.	1.6	3
51	Molecular basis of growth hormone daily mRNA and protein synthesis in rats. Life Sciences, 2018, 207, 36-41.	4.3	2
52	Melatonin and brown adipose tissue: novel insights to a complex interplay. Melatonin Research, 2019, 2, 25-41.	1.1	2
53	Monosodium glutamate administration early in life alters pineal melatonin nocturnal profile in adulthood. Melatonin Research, 2021, 4, 99-114.	1.1	1
54	Increased corticosterone levels contribute to glucose intolerance induced by the absence of melatonin. FASEB Journal, 2013, 27, 1161.1.	0.5	1

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55	6-sulfatoxymelatonin daily profile in Fabry disease patients: Relationship to disease variants. Molecular Genetics and Metabolism, 2019, 126, S44.	1.1	0
56	Quasi-Experimental study of effects of lighting on rest, activity and melatonin in postpartum women. Revista Brasileira De Enfermagem, 2021, 74, e20201064.	0.7	0
57	197 EXPRESSION OF MELATONIN-RELATED GENES IN RAT CUMULUSâ€“OOCYTE COMPLEXES. Reproduction, Fertility and Development, 2013, 25, 247.	0.4	0
58	Pineal melatonin deprivation alters the mRNA expression of melatonin and steroidogenic-related receptor genes in rat oviduct and uterus during the estrus stage of estrous cycle. Melatonin Research, 2022, 5, 68-83.	1.1	0