

# Regina P. Markus

## List of Publications by Year in descending order

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126  
papers

4,614  
citations

76196

40  
h-index

123241

61  
g-index

127  
all docs

127  
docs citations

127  
times ranked

4652  
citing authors

#	ARTICLE	IF	CITATIONS
1	Update on melatonin receptors: IUPHAR Review 20. British Journal of Pharmacology, 2016, 173, 2702-2725.	2.7	312
2	Calcium-dependent modulation by melatonin of the circadian rhythm in malarial parasites.. Nature Cell Biology, 2000, 2, 466-468.	4.6	178
3	Melatonin and N-acetylserotonin inhibit leukocyte rolling and adhesion to rat microcirculation. European Journal of Pharmacology, 2001, 430, 351-357.	1.7	144
4	Immune-pineal axis acute inflammatory responses coordinate melatonin synthesis by pinealocytes and phagocytes. British Journal of Pharmacology, 2018, 175, 3239-3250.	2.7	136
5	NF- $\kappa$ B Drives the Synthesis of Melatonin in RAW 264.7 Macrophages by Inducing the Transcription of the Arylalkylamine-N-Acetyltransferase (AA-NAT) Gene. PLoS ONE, 2012, 7, e52010.	1.1	124
6	The Immune-Pineal Axis: A Shuttle between Endocrine and Paracrine Melatonin Sources. NeuroImmunoModulation, 2007, 14, 126-133.	0.9	120
7	Immune-Pineal Axis: Nuclear Factor $\kappa$ B (NF- $\kappa$ B) Mediates the Shift in the Melatonin Source from Pinealocytes to Immune Competent Cells. International Journal of Molecular Sciences, 2013, 14, 10979-10997.	1.8	103
8	Pineal melatonin and the innate immune response: the TNF- $\alpha$ increase after cesarean section suppresses nocturnal melatonin production. Journal of Pineal Research, 2007, 43, 365-371.	3.4	96
9	Effect of TNF- $\alpha$ on the melatonin synthetic pathway in the rat pineal gland: basis for a 'feedback' of the immune response on circadian timing. Journal of Pineal Research, 2006, 41, 344-350.	3.4	92
10	Role of $\alpha$ 7 Nicotinic Acetylcholine Receptor in Calcium Signaling Induced by Prion Protein Interaction with Stress-inducible Protein 1. Journal of Biological Chemistry, 2010, 285, 36542-36550.	1.6	92
11	TLR4 and CD14 receptors expressed in rat pineal gland trigger NFKB pathway. Journal of Pineal Research, 2010, 49, no-no.	3.4	90
12	Daily Onset of Light and Darkness Differentially Controls Hematopoietic Stem Cell Differentiation and Maintenance. Cell Stem Cell, 2018, 23, 572-585.e7.	5.2	86
13	Injury switches melatonin production source from endocrine (pineal) to paracrine (phagocytes) melatonin in human colostrum and colostrum phagocytes. Journal of Pineal Research, 2006, 41, 136-141.	3.4	84
14	Intracellular Peptides as Natural Regulators of Cell Signaling. Journal of Biological Chemistry, 2008, 283, 24448-24459.	1.6	84
15	Melatonin effect on endothelial cells reduces vascular permeability increase induced by leukotriene B4. European Journal of Pharmacology, 2006, 534, 258-263.	1.7	75
16	Melatonin inhibits LPS-induced NO production in rat endothelial cells. Journal of Pineal Research, 2009, 46, 268-274.	3.4	75
17	Corticosterone modulates noradrenaline-induced melatonin synthesis through inhibition of nuclear factor kappa B. Journal of Pineal Research, 2005, 38, 182-188.	3.4	74
18	Selective protection of the cerebellum against intracerebroventricular LPS is mediated by local melatonin synthesis. Brain Structure and Function, 2015, 220, 827-840.	1.2	65

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19	Melatonergic System in Parkinson's Disease: From Neuroprotection to the Management of Motor and Nonmotor Symptoms. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-31.	1.9	64
20	Tertian and Quartan Fevers: Temporal Regulation in Malarial Infection. <i>Journal of Biological Rhythms</i> , 2001, 16, 436-443.	1.4	62
21	Melatonin attenuates <i>Leishmania (L.) amazonensis</i> infection by modulating arginine metabolism. <i>Journal of Pineal Research</i> , 2015, 59, 478-487.	3.4	62
22	Expression of the Circadian Clock Gene BMAL1 Positively Correlates With Antitumor Immunity and Patient Survival in Metastatic Melanoma. <i>Frontiers in Oncology</i> , 2018, 8, 185.	1.3	60
23	The Immune-Pineal Axis. <i>Annals of the New York Academy of Sciences</i> , 2009, 1153, 193-202.	1.8	59
24	Glia-Pinealocyte Network: The Paracrine Modulation of Melatonin Synthesis by Tumor Necrosis Factor (TNF). <i>PLoS ONE</i> , 2012, 7, e40142.	1.1	59
25	Melatonin modulates autophagy and inflammation protecting human placental trophoblast from hypoxia/reoxygenation. <i>Journal of Pineal Research</i> , 2018, 65, e12520.	3.4	57
26	Is modulation of nicotinic acetylcholine receptors by melatonin relevant for therapy with cholinergic drugs?. , 2010, 126, 251-262.		55
27	Long-Lasting Priming of Endothelial Cells by Plasma Melatonin Levels. <i>PLoS ONE</i> , 2010, 5, e13958.	1.1	55
28	DAILY VARIATION OF CONSTITUTIVELY ACTIVATED NUCLEAR FACTOR KAPPA B (NFkB) IN RAT PINEAL GLAND. <i>Chronobiology International</i> , 2010, 27, 52-67.	0.9	54
29	Melatonin inhibits endothelial nitric oxide production in vitro. <i>Journal of Pineal Research</i> , 2006, 41, 267-274.	3.4	53
30	Endogenous glucocorticoids control neutrophil mobilization from bone marrow to blood and tissues in non-inflammatory conditions. <i>British Journal of Pharmacology</i> , 2007, 152, 1291-1300.	2.7	51
31	Molecular Basis for Defining the Pineal Gland and Pinealocytes as Targets for Tumor Necrosis Factor. <i>Frontiers in Endocrinology</i> , 2011, 2, 10.	1.5	50
32	Purinergic signalling is involved in the malaria parasite <i>Plasmodium falciparum</i> invasion to red blood cells. <i>Purinergic Signalling</i> , 2010, 6, 365-372.	1.1	49
33	Melatonin inhibits nitric oxide production by microvascular endothelial cells in vivo and in vitro. <i>British Journal of Pharmacology</i> , 2007, 151, 195-205.	2.7	48
34	Circadian rhythm in experimental granulomatous inflammation is modulated by melatonin. <i>Journal of Pineal Research</i> , 1997, 23, 72-78.	3.4	46
35	Melatonin levels in drug-free patients with major depression from the southern hemisphere. <i>Psychoneuroendocrinology</i> , 2006, 31, 761-768.	1.3	46
36	Age-related changes in cyclic GMP and PKG-stimulated cerebellar Na,K-ATPase activity. <i>Neurobiology of Aging</i> , 2005, 26, 907-916.	1.5	45

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37	Effect of antidepressants on melatonin metabolite in depressed patients. <i>Journal of Psychopharmacology</i> , 2009, 23, 315-321.	2.0	45
38	Amyloid $\beta$ peptide directly impairs pineal gland melatonin synthesis and melatonin receptor signaling through the ERK pathway. <i>FASEB Journal</i> , 2015, 29, 2566-2582.	0.2	45
39	The RelA/NF- $\kappa$ B dimer, crucial for inflammation resolution, mediates the transcription of the key enzyme in melatonin synthesis in RAW 264.7 macrophages. <i>Journal of Pineal Research</i> , 2016, 60, 394-404.	3.4	43
40	Release of [ $^3$ H]-l-glutamate by stimulation of nicotinic acetylcholine receptors in rat cerebellar slices. <i>Neuroscience</i> , 2004, 124, 647-653.	1.1	42
41	Melatonin synthesis in human colostrum mononuclear cells enhances dectin-mediated phagocytosis by mononuclear cells. <i>Journal of Pineal Research</i> , 2013, 55, 240-246.	3.4	42
42	Ebola virus: Melatonin as a readily available treatment option. <i>Journal of Medical Virology</i> , 2015, 87, 537-543.	2.5	42
43	Local Corticosterone Infusion Enhances Nocturnal Pineal Melatonin Production <i>In Vivo</i> . <i>Journal of Neuroendocrinology</i> , 2009, 21, 90-97.	1.2	41
44	Purinergic and noradrenergic cotransmission in the rat pineal gland. <i>European Journal of Pharmacology</i> , 2000, 401, 59-62.	1.7	39
45	Interaction between the adrenal and the pineal gland in chronic experimental inflammation induced by BCG in mice. <i>Inflammation Research</i> , 2001, 50, 6-11.	1.6	38
46	Effect of full agonists following calcium deprivation in rat vas deferens. <i>European Journal of Pharmacology</i> , 1975, 31, 292-304.	1.7	36
47	Shift Work in Rats Results in Increased Inflammatory Response after Lipopolysaccharide Administration. <i>Journal of Biological Rhythms</i> , 2015, 30, 318-330.	1.4	35
48	Dual Effect of Catecholamines and Corticosterone Crosstalk on Pineal Gland Melatonin Synthesis. <i>Neuroendocrinology</i> , 2017, 104, 126-134.	1.2	35
49	Presence of P <sub>2</sub> purinoceptors in the rat pineal gland. <i>British Journal of Pharmacology</i> , 1994, 112, 107-110.	2.7	32
50	Endothelial cell adhesiveness is a function of environmental lighting and melatonin level. <i>Journal of Pineal Research</i> , 2013, 54, 162-169.	3.4	32
51	Melatonin and <i>Leishmania amazonensis</i> Infection Altered miR-294, miR-30e, and miR-302d Impacting on Tnf, Mcp-1, and Nos2 Expression. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 60.	1.8	32
52	Melatonin and Depression: A Translational Perspective From Animal Models to Clinical Studies. <i>Frontiers in Psychiatry</i> , 2021, 12, 638981.	1.3	32
53	$\beta$ -Adrenoceptors Trigger Melatonin Synthesis in Phagocytes. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2182.	1.8	31
54	Night work effects on salivary cytokines TNF, IL-1 $\beta$ and IL-6. <i>Chronobiology International</i> , 2019, 36, 11-26.	0.9	31

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55	Central Nervous Effects of the Convulsant Protein Canatoxin *. Acta Pharmacologica Et Toxicologica, 1984, 54, 161-166.	0.0	30
56	Adenosine inhibits the renal plasma-membrane (Ca <sup>2+</sup> + Mg <sup>2+</sup> )-ATPase through a pathway sensitive to cholera toxin and sphingosine. FEBS Journal, 1999, 263, 71-78.	0.2	29
57	Melatonin Nocturnal Surge Modulates Nicotinic Receptors and Nicotine-Induced [3H]Glutamate Release in Rat Cerebellum Slices. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 525-530.	1.3	29
58	Characterisation of P2Y1-like receptor in cultured rat pineal glands. European Journal of Pharmacology, 2001, 415, 151-156.	1.7	27
59	Stimulation of the $\hat{1}\pm$ -adrenoceptor triggers the venom production cycle in the venom gland of Bothrops jararaca. Journal of Experimental Biology, 2004, 207, 411-416.	0.8	26
60	The Immune-Pineal Axis: the Role of Pineal and Extra-Pineal Melatonin in Modulating Inflammation. Advances in Neuroimmune Biology, 2011, 1, 95-104.	0.7	26
61	A Phase II, Randomized, Double-Blind, Placebo Controlled, Dose-Response Trial of the Melatonin Effect on the Pain Threshold of Healthy Subjects. PLoS ONE, 2013, 8, e74107.	1.1	25
62	Daily corticosterone rhythm modulates pineal function through NF $\hat{1}$ <sup>B</sup> -related gene transcriptional program. Scientific Reports, 2017, 7, 2091.	1.6	25
63	Adrenal deficiency alters mechanisms of neutrophil mobilization. Molecular and Cellular Endocrinology, 2006, 249, 32-39.	1.6	24
64	Adenosine triphosphate inhibits melatonin synthesis in the rat pineal gland. Journal of Pineal Research, 2016, 60, 242-249.	3.4	24
65	Antimalarial drugs disrupt ion homeostasis in malarial parasites. Memorias Do Instituto Oswaldo Cruz, 2007, 102, 329-334.	0.8	23
66	The Cellular State Determines the Effect of Melatonin on the Survival of Mixed Cerebellar Cell Culture. PLoS ONE, 2014, 9, e106332.	1.1	23
67	Daily light and darkness onset and circadian rhythms metabolically synchronize hematopoietic stem cell differentiation and maintenance: The role of bone marrow norepinephrine, tumor necrosis factor, and melatonin cycles. Experimental Hematology, 2019, 78, 1-10.	0.2	23
68	Immuneâ€pineal axis protects rat lungs exposed to polluted air. Journal of Pineal Research, 2020, 68, e12636.	3.4	23
69	Dysregulation of Circadian Rhythms in Autism Spectrum Disorders. Current Pharmaceutical Design, 2020, 25, 4379-4393.	0.9	22
70	Melatonin modulates rat myotube-acetylcholine receptors by inhibiting calmodulin. European Journal of Pharmacology, 2005, 525, 24-31.	1.7	21
71	PIP4K2A and PIP4K2C transcript levels are associated with cytogenetic risk and survival outcomes in acute myeloid leukemia. Cancer Genetics, 2019, 233-234, 56-66.	0.2	21
72	Short sleep duration increases salivary IL-6 production. Chronobiology International, 2016, 33, 780-782.	0.9	20

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73	Melatonergic system-based two-gene index is prognostic in human gliomas. <i>Journal of Pineal Research</i> , 2016, 60, 84-94.	3.4	20
74	Chronic nicotine treatment decreases LPS signaling through NF- $\kappa$ B and TLR-4 modulation in the hippocampus. <i>Neuroscience Letters</i> , 2017, 636, 218-224.	1.0	20
75	Possible Role of Pineal and Extra-Pineal Melatonin in Surveillance, Immunity, and First-Line Defense. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12143.	1.8	20
76	Characterization of $\text{I}^2$ -adrenoceptors responsible for venom production in the venom gland of the snake <i>Bothrops jararaca</i> . <i>Life Sciences</i> , 2000, 67, 217-226.	2.0	19
77	A representative metalloprotease induces PGE2 synthesis in fibroblast-like synoviocytes via the NF- $\kappa$ B/COX-2 pathway with amplification by IL-1 $\beta$ and the EP4 receptor. <i>Scientific Reports</i> , 2020, 10, 3269.	1.6	19
78	Relevance of the Chronobiological and Non-chronobiological Actions of Melatonin for Enhancing Therapeutic Efficacy in Neurodegenerative Disorders. <i>Recent Patents on Endocrine, Metabolic &amp; Immune Drug Discovery</i> , 2011, 5, 91-99.	0.7	18
79	The Concept of the Immune-Pineal Axis Tested in Patients Undergoing an Abdominal Hysterectomy. <i>NeuroImmunoModulation</i> , 2013, 20, 205-212.	0.9	18
80	Disrupted nocturnal melatonin in autism: Association with tumor necrosis factor and sleep disturbances. <i>Journal of Pineal Research</i> , 2021, 70, e12715.	3.4	18
81	An antibody-based platform for melatonin quantification. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 171, 94-100.	2.5	17
82	Hormonal daily variation co-varies with immunity in captive male bullfrogs ( <i>Lithobates catesbeianus</i> ). <i>General and Comparative Endocrinology</i> , 2021, 303, 113702.	0.8	17
83	Long-term primary culture of secretory cells of <i>Bothrops jararaca</i> venom gland for venom production in vitro. <i>Nature Protocols</i> , 2006, 1, 2763-2766.	5.5	16
84	STAT1-NF $\kappa$ B crosstalk triggered by interferon gamma regulates noradrenaline-induced pineal hormonal production. <i>Journal of Pineal Research</i> , 2019, 67, e12599.	3.4	16
85	Rhythmic expression of the melatonergic biosynthetic pathway and its differential modulation in vitro by LPS and IL10 in bone marrow and spleen. <i>Scientific Reports</i> , 2020, 10, 4799.	1.6	15
86	Age-related changes in the reactivity of the rat jejunum to cholinergic agonists. <i>European Journal of Pharmacology</i> , 1985, 115, 133-138.	1.7	14
87	Actions of translocator protein ligands on neutrophil adhesion and motility induced by G-protein coupled receptor signaling. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 918-923.	1.0	14
88	P2Y <sub>1</sub> Receptor Activation Enhances the Rate of Rat Pinealocyte-Induced Extracellular Acidification via a Calcium-Dependent Mechanism. <i>Pharmacology</i> , 2003, 69, 33-37.	0.9	13
89	Desynchronizing Plasmodium Cell Cycle Increases Chloroquine Protection at Suboptimal Doses. <i>The Open Parasitology Journal</i> , 2008, 2, 55-58.	1.7	13
90	Influence of age on nitric oxide modulatory action on Na <sup>+</sup> , K <sup>+</sup> -ATPase activity through cyclic GMP pathway in proximal rat trachea. <i>European Journal of Pharmacology</i> , 2000, 388, 1-7.	1.7	12

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91	Venom production in long-term primary culture of secretory cells of the Bothrops jararaca venom gland. <i>Toxicon</i> , 2006, 47, 87-94.	0.8	11
92	Nitric oxide modulates lipopolysaccharide-induced endothelial platelet endothelial cell adhesion molecule expression via interleukin-10. <i>Clinical and Experimental Immunology</i> , 2011, 165, 172-179.	1.1	11
93	Daily rhythm of salivary IL-1 $\beta$ , cortisol and melatonin in day and night workers. <i>Work</i> , 2012, 41, 5788-5790.	0.6	11
94	Site-Specific Reprogramming of Macrophage Responsiveness to Bacterial Lipopolysaccharide in Obesity. <i>Frontiers in Immunology</i> , 2019, 10, 1496.	2.2	11
95	Age-related changes in cerebellar phosphatase-1 reduce Na,K-ATPase activity. <i>Neurobiology of Aging</i> , 2008, 29, 1712-1720.	1.5	10
96	Bimodal Daily Variation in the Serotonin Content in the Raphe Nuclei of Rats. <i>Biological Rhythm Research</i> , 2004, 35, 245-257.	0.4	9
97	Acute increase in urinary 6-sulfatoxymelatonin after clomipramine, as a predictive measure for emotional improvement. <i>Journal of Psychopharmacology</i> , 2010, 24, 855-860.	2.0	9
98	Melatonin-Index as a biomarker for predicting the distribution of presymptomatic and asymptomatic SARS-CoV-2 carriers. <i>Melatonin Research</i> , 2021, 4, 189-205.	0.7	9
99	Influence of melatonin on the development of functional nicotinic acetylcholine receptors in cultured chick retinal cells. <i>Brazilian Journal of Medical and Biological Research</i> , 2005, 38, 603-613.	0.7	9
100	2-[ <sup>125</sup> I]iodomelatonin Binding Sites in the Rat Vas Deferens. <i>NeuroSignals</i> , 1993, 2, 194-198.	0.5	8
101	Are imidazoline receptors involved in sympathetic neurotransmission in rat vas deferens. <i>General Pharmacology</i> , 1996, 27, 1273-1278.	0.7	8
102	Pinealectomy-associated decrease in ribosomal gene activity in rats. <i>Biogerontology</i> , 2001, 2, 105-108.	2.0	8
103	6-Sulfatoxymelatonin as a predictor of clinical outcome in depressive patients. <i>Human Psychopharmacology</i> , 2011, 26, 252-257.	0.7	8
104	Light/Dark Environmental Cycle Imposes a Daily Profile in the Expression of microRNAs in Rat CD133 <sup>+</sup> Cells. <i>Journal of Cellular Physiology</i> , 2016, 231, 1953-1963.	2.0	8
105	MT2 melatonin receptors expressed in the olfactory bulb modulate depressive-like behavior and olfaction in the 6-OHDA model of Parkinson's disease. <i>European Journal of Pharmacology</i> , 2021, 891, 173722.	1.7	8
106	Daily and LPS-induced variation of endocrine mediators in cururu toads ( <i>Rhinella icterica</i> ). <i>Chronobiology International</i> , 2022, 39, 89-96.	0.9	8
107	Effect of ageing on the number of neuronal noradrenaline uptake sites in the rat vas deferens. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1992, 346, 405-409.	1.4	7
108	Plasma corticosterone elevation inhibits the activation of nuclear factor kappa B (NFkB) in the Syrian hamster pineal gland. <i>Stress</i> , 2012, 15, 339-347.	0.8	7

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109	The effect of sexual hormones on the sulfated glycosaminoglycan pattern of male genital accessory organs. <i>Archives of Biochemistry and Biophysics</i> , 1985, 240, 470-477.	1.4	5
110	Melatonin receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	5
111	Influence of castration on the membrane reactivity of the guinea-pig vas deferens. <i>Pflugers Archiv European Journal of Physiology</i> , 1987, 409, 528-532.	1.3	4
112	Do differences in innervation result in different post-synaptic responses to exogenous agonists?. <i>General Pharmacology</i> , 1989, 20, 65-69.	0.7	4
113	6-Sulfatoxymelatonin predicts treatment response to fluoxetine in major depressive disorder. <i>Therapeutic Advances in Psychopharmacology</i> , 2019, 9, 204512531988192.	1.2	4
114	Melatonin and the time window for the expression of the $\alpha 8$ nicotinic acetylcholine receptor in the membrane of chick retinal cells in culture. <i>International Journal of Developmental Neuroscience</i> , 2010, 28, 245-249.	0.7	3
115	Brain Damage-linked ATP Promotes P2X7 Receptors Mediated Pineal N-acetylserotonin Release. <i>Neuroscience</i> , 2022, 499, 12-22.	1.1	3
116	Neuronal uptake of noradrenaline in the rat isolated trachea: Effect of ageing. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1990, 96, 287-290.	0.2	2
117	Neuroprotective effects of melatonin against neurotoxicity induced by intranasal sodium dimethyldithiocarbamate administration in mice. <i>NeuroToxicology</i> , 2020, 80, 144-154.	1.4	2
118	Relationship between neuronal uptake and release of noradrenaline in the rat vas deferens. <i>European Journal of Pharmacology</i> , 1990, 183, 1488.	1.7	1
119	Daily Light and Darkness Signals Regulate Bone Marrow Stem Cell Development and Leukocyte Production Via $Tnfr$ and an Interplay Between Norepinephrine and Melatonin. <i>Blood</i> , 2016, 128, 721-721.	0.6	1
120	Melatonin synthesized by activated microglia orchestrates the progression of microglia from a pro-inflammatory to a recovery/repair phenotype. <i>Melatonin Research</i> , 2022, 5, 55-67.	0.7	1
121	Immune and endocrine responses of Cururu toads ( <i>Rhinella icterica</i> ) in their natural habitat after LPS stimulation. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2022, 269, 111213.	0.8	1
122	Circadian and ultradian rhythms of superoxide dismutase in the pineal gland. <i>European Journal of Pharmacology</i> , 1990, 183, 1194.	1.7	0
123	Experimentação animal e o avanço do conhecimento. <i>Arquivos Brasileiros De Ciências Da Saúde</i> , 2008, 33, .	0.1	0
124	Letter to the Editor. <i>Brain Structure and Function</i> , 2022, 227, 5-6.	1.2	0
125	O tempo biológico e a defesa do organismo: uma conversa bidirecional entre a glândula pineal e o sistema imunológico. <i>Ciência E Cultura</i> , 2013, 65, 52-55.	0.5	0
126	Nocturnal Melatonin Renews Bone and Blood Forming Stem Cells Reservoir By Metabolic Reprograming. <i>Blood</i> , 2018, 132, 3326-3326.	0.6	0