Regina P. Markus

List of Publications by Year
in descending order

126	4,614	76196	123241
papers	citations	40 h-index	61 g-index

127	127	127	4652
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Daily and LPS-induced variation of endocrine mediators in cururu toads (Rhinella icterica). Chronobiology International, 2022, 39, 89-96.	0.9	8
2	Letter to the Editor. Brain Structure and Function, 2022, 227, 5-6.	1.2	0
3	Melatonin synthesized by activated microglia orchestrates the progression of microglia from a pro-inflammatory to a recovery/repair phenotype. Melatonin Research, 2022, 5, 55-67.	0.7	1
4	Immune and endocrine responses of Cururu toads (Rhinella icterica) in their natural habitat after LPS stimulation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2022, 269, 111213.	0.8	1
5	Brain Damage-linked ATP Promotes P2X7 Receptors Mediated Pineal N-acetylserotonin Release. Neuroscience, 2022, 499, 12-22.	1.1	3
6	MT2 melatonin receptors expressed in the olfactory bulb modulate depressive-like behavior and olfaction in the 6-OHDA model of Parkinson's disease. European Journal of Pharmacology, 2021, 891, 173722.	1.7	8
7	Melatonin-Index as a biomarker for predicting the distribution of presymptomatic and asymptomatic SARS-CoV-2 carriers. Melatonin Research, 2021, 4, 189-205.	0.7	9
8	Disrupted nocturnal melatonin in autism: Association with tumor necrosis factor and sleep disturbances. Journal of Pineal Research, 2021, 70, e12715.	3.4	18
9	Hormonal daily variation co-varies with immunity in captive male bullfrogs (Lithobates catesbeianus). General and Comparative Endocrinology, 2021, 303, 113702.	0.8	17
10	Melatonin and Depression: A Translational Perspective From Animal Models to Clinical Studies. Frontiers in Psychiatry, 2021, 12, 638981.	1.3	32
11	Possible Role of Pineal and Extra-Pineal Melatonin in Surveillance, Immunity, and First-Line Defense. International Journal of Molecular Sciences, 2021, 22, 12143.	1.8	20
12	Neuroprotective effects of melatonin against neurotoxicity induced by intranasal sodium dimethyldithiocarbamate administration in mice. NeuroToxicology, 2020, 80, 144-154.	1.4	2
13	Rhythmic expression of the melatonergic biosynthetic pathway and its differential modulation in vitro by LPS and IL10 in bone marrow and spleen. Scientific Reports, 2020, 10, 4799.	1.6	15
14	A representative metalloprotease induces PGE2 synthesis in fibroblast-like synoviocytes via the NF-Î²B/COX-2 pathway with amplification by IL-1Î² and the EP4 receptor. Scientific Reports, 2020, 10, 3269.	1.6	19
15	Immuneâ€pineal axis protects rat lungs exposed to polluted air. Journal of Pineal Research, 2020, 68, e12636.	3.4	23
16	Dysregulation of Circadian Rhythms in Autism Spectrum Disorders. Current Pharmaceutical Design, 2020, 25, 4379-4393.	0.9	22
17	Site-Specific Reprogramming of Macrophage Responsiveness to Bacterial Lipopolysaccharide in Obesity. Frontiers in Immunology, 2019, 10, 1496.	2.2	11
18	STAT1â€NFÎ²B crosstalk triggered by interferon gamma regulates noradrenalineâ€induced pineal hormonal production. Journal of Pineal Research, 2019, 67, e12599.	3.4	16

#	Article	IF	Citations
19	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
20	Melatonin and Leishmania amazonensis Infection Altered miR-294, miR-30e, and miR-302d Impacting on Tnf, Mcp-1, and Nos2 Expression. Frontiers in Cellular and Infection Microbiology, 2019, 9, 60.	1.8	32
21	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
22	6-Sulfatoxymelatonin predicts treatment response to fluoxetine in major depressive disorder. Therapeutic Advances in Psychopharmacology, 2019, 9, 204512531988192.	1.2	4
23	Night work effects on salivary cytokines TNF, IL-1Î² and IL-6. Chronobiology International, 2019, 36, 11-26.	0.9	31
24	Melatonin receptors (version 2019.4) in the IUPHAR/BPS Guide to Pharmacology Database. IUPHAR/BPS Guide To Pharmacology CITE, 2019, 2019, .	0.2	5
25	Immuneâ€pineal axis â€“ acute inflammatory responses coordinate melatonin synthesis by pinealocytes and phagocytes. British Journal of Pharmacology, 2018, 175, 3239-3250.	2.7	136
26	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
27	Î²-Adrenoceptors Trigger Melatonin Synthesis in Phagocytes. International Journal of Molecular Sciences, 2018, 19, 2182.	1.8	31
28	Expression of the Circadian Clock Gene BMAL1 Positively Correlates With Antitumor Immunity and Patient Survival in Metastatic Melanoma. Frontiers in Oncology, 2018, 8, 185.	1.3	60
29	An antibody-based platform for melatonin quantification. Colloids and Surfaces B: Biointerfaces, 2018, 171, 94-100.	2.5	17
30	Melatonin modulates autophagy and inflammation protecting human placental trophoblast from hypoxia/reoxygenation. Journal of Pineal Research, 2018, 65, e12520.	3.4	57
31	Nocturnal Melatonin Renews Bone and Blood Forming Stem Cells Reservoir By Metabolic Reprograming. Blood, 2018, 132, 3326-3326.	0.6	0
32	Dual Effect of Catecholamines and Corticosterone Crosstalk on Pineal Gland Melatonin Synthesis. Neuroendocrinology, 2017, 104, 126-134.	1.2	35
33	Daily corticosterone rhythm modulates pineal function through NFÎºB-related gene transcriptional program. Scientific Reports, 2017, 7, 2091.	1.6	25
34	Chronic nicotine treatment decreases LPS signaling through NF-ÎºB and TLR-4 modulation in the hippocampus. Neuroscience Letters, 2017, 636, 218-224.	1.0	20
35	Melatoninergic System in Parkinsonâ€™s Disease: From Neuroprotection to the Management of Motor and Nonmotor Symptoms. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-31.	1.9	64
36	Update on melatonin receptors: IUPHAR Review 20. British Journal of Pharmacology, 2016, 173, 2702-2725.	2.7	312

#	Article	IF	Citations
37	The RelA/<scp>cR</scp>el nuclear factorâ€Î²B (<scp>NF</scp>â€Î²B) dimer, crucial for inflammation resolution, mediates the transcription of the key enzyme in melatonin synthesis in <scp>RAW</scp> 264.7 macrophages. Journal of Pineal Research, 2016, 60, 394-404.	3.4	43
38	Adenosine triphosphate inhibits melatonin synthesis in the rat pineal gland. Journal of Pineal Research, 2016, 60, 242-249.	3.4	24
39	Short sleep duration increases salivary IL-6 production. Chronobiology International, 2016, 33, 780-782.	0.9	20
40	Melatonergic systemâ€based twoâ€gene index is prognostic in human gliomas. Journal of Pineal Research, 2016, 60, 84-94.	3.4	20
41	Light/Dark Environmental Cycle Imposes a Daily Profile in the Expression of microRNAs in Rat CD133⁺ Cells. Journal of Cellular Physiology, 2016, 231, 1953-1963.	2.0	8
42	Daily Light and Darkness Signals Regulate Bone Marrow Stem Cell Development and Leukocyte Production Via TnfÎ± and an Interplay Between Norepinephrine and Melatonin. Blood, 2016, 128, 721-721.	0.6	1
43	Melatonin attenuates <scp>L</scp>eishmania (L.) amazonensis infection by modulating arginine metabolism. Journal of Pineal Research, 2015, 59, 478-487.	3.4	62
44	Shift Work in Rats Results in Increased Inflammatory Response after Lipopolysaccharide Administration. Journal of Biological Rhythms, 2015, 30, 318-330.	1.4	35
45	Ebola virus: Melatonin as a readily available treatment option. Journal of Medical Virology, 2015, 87, 537-543.	2.5	42
46	Amyloid Î² peptide directly impairs pineal gland melatonin synthesis and melatonin receptor signaling through the ERK pathway. FASEB Journal, 2015, 29, 2566-2582.	0.2	45
47	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
48	The Cellular State Determines the Effect of Melatonin on the Survival of Mixed Cerebellar Cell Culture. PLoS ONE, 2014, 9, e106332.	1.1	23
49	Endothelial cell adhesiveness is a function of environmental lighting and melatonin level. Journal of Pineal Research, 2013, 54, 162-169.	3.4	32
50	Melatonin synthesis in human colostrum mononuclear cells enhances dectinâ€1â€mediated phagocytosis by mononuclear cells. Journal of Pineal Research, 2013, 55, 240-246.	3.4	42
51	The Concept of the Immune-Pineal Axis Tested in Patients Undergoing an Abdominal Hysterectomy. NeuroImmunoModulation, 2013, 20, 205-212.	0.9	18
52	Immune-Pineal Axis: Nuclear Factor ÎºB (NF-kB) 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
53	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
54	O tempo biolÃ³gico e a defesa do organismo: uma conversa bidirecional entre a glÃ¢ndula pineal e o sistema imunolÃ³gico. CiÃªncia E Cultura, 2013, 65, 52-55.	0.5	0

#	Article	IF	Citations
55	Plasma corticosterone elevation inhibits the activation of nuclear factor kappa B (NFKB) in the Syrian hamster pineal gland. Stress, 2012, 15, 339-347.	0.8	7
56	Daily rhythm of salivary IL-1ÃŸ, cortisol and melatonin in day and night workers. Work, 2012, 41, 5788-5790.	0.6	11
57	Actions of translocator protein ligands on neutrophil adhesion and motility induced by G-protein coupled receptor signaling. Biochemical and Biophysical Research Communications, 2012, 417, 918-923.	1.0	14
58	NF-ÎºB 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
59	Glia-Pinealocyte Network: The Paracrine Modulation of Melatonin Synthesis by Tumor Necrosis Factor (TNF). PLoS ONE, 2012, 7, e40142.	1.1	59
60	Molecular Basis for Defining the Pineal Gland and Pinealocytes as Targets for Tumor Necrosis Factor. Frontiers in Endocrinology, 2011, 2, 10.	1.5	50
61	Nitric oxide modulates lipopolysaccharide-induced endothelial platelet endothelial cell adhesion molecule expression via interleukin-10. Clinical and Experimental Immunology, 2011, 165, 172-179.	1.1	11
62	6â€Sulfatoxymelatonin as a predictor of clinical outcome in depressive patients. Human Psychopharmacology, 2011, 26, 252-257.	0.7	8
63	Relevance of the Chronobiological and Non-chronobiological Actions of Melatonin for Enhancing Therapeutic Efficacy in Neurodegenerative Disorders. Recent Patents on Endocrine, Metabolic & Immune Drug Discovery, 2011, 5, 91-99.	0.7	18
64	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
65	Purinergic signalling is involved in the malaria parasite Plasmodium falciparum invasion to red blood cells. Purinergic Signalling, 2010, 6, 365-372.	1.1	49
66	Is modulation of nicotinic acetylcholine receptors by melatonin relevant for therapy with cholinergic drugs?. , 2010, 126, 251-262.		55
67	TLR4 and CD14 receptors expressed in rat pineal gland trigger NFKB pathway. Journal of Pineal Research, 2010, 49, no-no.	3.4	90
68	DAILY VARIATION OF CONSTITUTIVELY ACTIVATED NUCLEAR FACTOR KAPPA B (NFKB) IN RAT PINEAL GLAND. Chronobiology International, 2010, 27, 52-67.	0.9	54
69	Acute increase in urinary 6-sulfatoximelatonin after clomipramine, as a predictive measure for emotional improvement. Journal of Psychopharmacology, 2010, 24, 855-860.	2.0	9
70	Role of Î±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
71	Melatonin and the time window for the expression of the Î±8 nicotinic acetylcholine receptor in the membrane of chick retinal cells in culture. International Journal of Developmental Neuroscience, 2010, 28, 245-249.	0.7	3
72	Long-Lasting Priming of Endothelial Cells by Plasma Melatonin Levels. PLoS ONE, 2010, 5, e13958.	1.1	55

#	Article	IF	Citations
73	Effect of antidepressants on melatonin metabolite in depressed patients. Journal of Psychopharmacology, 2009, 23, 315-321.	2.0	45
74	Local Corticosterone Infusion Enhances Nocturnal Pineal Melatonin Production In Vivo. Journal of Neuroendocrinology, 2009, 21, 90-97.	1.2	41
75	Melatonin inhibits LPSâ€induced NO production in rat endothelial cells. Journal of Pineal Research, 2009, 46, 268-274.	3.4	75
76	The Immuneâ€“Pineal Axis. Annals of the New York Academy of Sciences, 2009, 1153, 193-202.	1.8	59
77	Age-related changes in cerebellar phosphatase-1 reduce Na,K-ATPase activity. Neurobiology of Aging, 2008, 29, 1712-1720.	1.5	10
78	Intracellular Peptides as Natural Regulators of Cell Signaling. Journal of Biological Chemistry, 2008, 283, 24448-24459.	1.6	84
79	ExperimentaÃ§Ã£o animal e o avanÃ§o do conhecimento. Arquivos Brasileiros De CiÃªncias Da SaÃºde, 2008, 33, .	0.1	0
80	Desynchronizing Plasmodium Cell Cycle Increases Chloroquine Protection at Suboptimal Doses. The Open Parasitology Journal, 2008, 2, 55-58.	1.7	13
81	The Immune-Pineal Axis: A Shuttle between Endocrine and Paracrine Melatonin Sources. NeuroImmunoModulation, 2007, 14, 126-133.	0.9	120
82	Antimalarial drugs disrupt ion homeostasis in malarial parasites. Memorias Do Instituto Oswaldo Cruz, 2007, 102, 329-334.	0.8	23
83	Melatonin inhibits nitric oxide production by microvascular endothelial cells in vivo and in vitro. British Journal of Pharmacology, 2007, 151, 195-205.	2.7	48
84	Endogenous glucocorticoids control neutrophil mobilization from bone marrow to blood and tissues in nonâ€inflammatory conditions. British Journal of Pharmacology, 2007, 152, 1291-1300.	2.7	51
85	Pineal melatonin and the innate immune response: the TNFâ€Î± increase after cesarean section suppresses nocturnal melatonin production. Journal of Pineal Research, 2007, 43, 365-371.	3.4	96
86	Adrenal deficiency alters mechanisms of neutrophil mobilization. Molecular and Cellular Endocrinology, 2006, 249, 32-39.	1.6	24
87	Venom production in long-term primary culture of secretory cells of the Bothrops jararaca venom gland. Toxicon, 2006, 47, 87-94.	0.8	11
88	Injury switches melatonin production source from endocrine (pineal) to paracrine (phagocytes) â€“ melatonin in human colostrum and colostrum phagocytes. Journal of Pineal Research, 2006, 41, 136-141.	3.4	84
89	Melatonin inhibits endothelial nitric oxide production in vitro. Journal of Pineal Research, 2006, 41, 267-274.	3.4	53
90	Effect of TNF-? 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

#	Article	IF	Citations
91	Long-term primary culture of secretory cells of Bothrops jararaca venom gland for venom production in vitro. Nature Protocols, 2006, 1, 2763-2766.	5.5	16
92	Melatonin effect on endothelial cells reduces vascular permeability increase induced by leukotriene B4. European Journal of Pharmacology, 2006, 534, 258-263.	1.7	75
93	Melatonin levels in drug-free patients with major depression from the southern hemisphere. Psychoneuroendocrinology, 2006, 31, 761-768.	1.3	46
94	Corticosterone modulates noradrenaline-induced melatonin synthesis through inhibition of nuclear factor kappa B. Journal of Pineal Research, 2005, 38, 182-188.	3.4	74
95	Melatonin modulates rat myotube-acetylcholine receptors by inhibiting calmodulin. European Journal of Pharmacology, 2005, 525, 24-31.	1.7	21
96	Age-related changes in cyclic GMP and PKG-stimulated cerebellar Na,K-ATPase activity. Neurobiology of Aging, 2005, 26, 907-916.	1.5	45
97	Influence of melatonin on the development of functional nicotinic acetylcholine receptors in cultured chick retinal cells. Brazilian Journal of Medical and Biological Research, 2005, 38, 603-613.	0.7	9
98	Stimulation of the Î±-adrenoceptor triggers the venom production cycle in the venom gland of Bothrops jararaca. Journal of Experimental Biology, 2004, 207, 411-416.	0.8	26
99	Bimodal Daily Variation in the Serotonin Content in the Raphe Nuclei of Rats. Biological Rhythm Research, 2004, 35, 245-257.	0.4	9
100	Release of [3h]-l-glutamate by stimulation of nicotinic acetylcholine receptors in rat cerebellar slices. Neuroscience, 2004, 124, 647-653.	1.1	42
101	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
102	P2Y₁ Receptor Activation Enhances the Rate of Rat Pinealocyte-Induced Extracellular Acidification via a Calcium-Dependent Mechanism. Pharmacology, 2003, 69, 33-37.	0.9	13
103	Interaction between the adrenal and the pineal gland in chronic experimental inflammation induced by BCG in mice. Inflammation Research, 2001, 50, 6-11.	1.6	38
104	Pinealectomy-associated decrease in ribosomal gene activity in rats. Biogerontology, 2001, 2, 105-108.	2.0	8
105	Characterisation of P2Y1-like receptor in cultured rat pineal glands. European Journal of Pharmacology, 2001, 415, 151-156.	1.7	27
106	Melatonin and N-acetylserotonin inhibit leukocyte rolling and adhesion to rat microcirculation. European Journal of Pharmacology, 2001, 430, 351-357.	1.7	144
107	Tertian and Quartan Fevers: Temporal Regulation in Malarial Infection. Journal of Biological Rhythms, 2001, 16, 436-443.	1.4	62
108	Calcium-dependent modulation by melatonin of the circadian rhythm in malarial parasites.. Nature Cell Biology, 2000, 2, 466-468.	4.6	178

#	Article	IF	Citations
109	Influence of age on nitric oxide modulatory action on Na+, K+-ATPase activity through cyclic GMP pathway in proximal rat trachea. European Journal of Pharmacology, 2000, 388, 1-7.	1.7	12
110	Purinergic and noradrenergic cotransmission in the rat pineal gland. European Journal of Pharmacology, 2000, 401, 59-62.	1.7	39
111	Characterization of Î²-adrenoceptors responsible for venom production in the venom gland of the snake Bothrops jararaca. Life Sciences, 2000, 67, 217-226.	2.0	19
112	Adenosine inhibits the renal plasma-membrane (Ca2+ + Mg2+)-ATPase through a pathway sensitive to cholera toxin and sphingosine. FEBS Journal, 1999, 263, 71-78.	0.2	29
113	Circadian rhythm in experimental granulomatous inflammation is modulated by melatonin. Journal of Pineal Research, 1997, 23, 72-78.	3.4	46
114	Are imidazoline receptors involved in sympathetic neurotransmission in rat vas deferens. General Pharmacology, 1996, 27, 1273-1278.	0.7	8
115	Presence of P₂â€purinoceptors in the rat pineal gland. British Journal of Pharmacology, 1994, 112, 107-110.	2.7	32
116	2-[¹²⁵I]Iodomelatonin Binding Sites in the Rat Vas Deferens. NeuroSignals, 1993, 2, 194-198.	0.5	8
117	Effect of ageing on the number of neuronal noradrenaline uptake sites in the rat vas deferens. Naunyn-Schmiedeberg's Archives of Pharmacology, 1992, 346, 405-409.	1.4	7
118	Neuronal uptake of noradrenaline in the rat isolated trachea: Effect of ageing. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1990, 96, 287-290.	0.2	2
119	Crcadian and ultradian rhythms of superoxide dismutase in the pineal gland. European Journal of Pharmacology, 1990, 183, 1194.	1.7	0
120	Relationship between neuronal uptake and release of noradrenaline in the rat vas deferens. European Journal of Pharmacology, 1990, 183, 1488.	1.7	1
121	Do differences in innervation result in different post-synaptic responses to exogenous agonists?. General Pharmacology, 1989, 20, 65-69.	0.7	4
122	Influence of castration on the membrane reactivity of the guinea-pig vas deferens. Pflugers Archiv European Journal of Physiology, 1987, 409, 528-532.	1.3	4
123	The effect of sexual hormones on the sulfated glycosaminoglycan pattern of male genital accessory organs. Archives of Biochemistry and Biophysics, 1985, 240, 470-477.	1.4	5
124	Age-related changes in the reactivity of the rat jejunum to cholinoceptor agonists. European Journal of Pharmacology, 1985, 115, 133-138.	1.7	14
125	Central Nervous Effects of the Convulsant Protein Canatoxin *. Acta Pharmacologica Et Toxicologica, 1984, 54, 161-166.	0.0	30
126	Effect of full agonists following calcium deprivation in rat vas deferens. European Journal of Pharmacology, 1975, 31, 292-304.	1.7	36