Russel J Reiter

List of Publications by Year in Descending Order

648 papers	60,341 citations	128 h-index	222 g-index
685 ext. papers	68,312 ext. citations	6.7 avg, IF	8.18 L-index

#	Paper	IF	Citations
648	Timing is everything: circadian rhythms and their role in the control of sleep.. *Frontiers in Neuroendocrinology*, **2022**, 100978	8.9	0
647	Protective Role of Melatonin and Its Metabolites in Skin Aging.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	10
646	Melatonin inhibits Gram-negative pathogens by targeting citrate synthase.. *Science China Life Sciences*, **2022**, 1	8.5	2
645	The proteomic landscape of ovarian cancer cells in response to melatonin.. *Life Sciences*, **2022**, 120352	6.8	0
644	Mechanisms and clinical evidence to support melatonin's use in severe COVID-19 patients to lower mortality.. *Life Sciences*, **2022**, 294, 120368	6.8	2
643	Melatonin-based therapeutics for atherosclerotic lesions and beyond: Focusing on macrophage mitophagy.. *Pharmacological Research*, **2022**, 176, 106072	10.2	2
642	Melatonin: highlighting its use as a potential treatment for SARS-CoV-2 infection.. *Cellular and Molecular Life Sciences*, **2022**, 79, 143	10.3	6
641	Melatonin Use for SARS-CoV-2 Infection:Time to Diversify the Treatment Portfolio.. *Journal of Medical Virology*, **2022**,	19.7	0
640	Alkylating Agent-Induced Toxicity and Melatonin-Based Therapies.. *Frontiers in Pharmacology*, **2022**, 13, 873197	5.6	0
639	Targeting AMPK signaling in ischemic/reperfusion injury: From molecular mechanism to pharmacological interventions.. *Cellular Signalling*, **2022**, 110323	4.9	2
638	Interactions of melatonin, ROS and NO during fruit ripening: An update and prospective view.. *Journal of Experimental Botany*, **2022**,	7	5
637	Phytomelatonin as a central molecule in plant disease resistance.. *Journal of Experimental Botany*, **2022**,	7	5
636	Melatonin in ventricular and subarachnoid cerebrospinal fluid: Its function in the neural glymphatic network and biological significance for neurocognitive health.. *Biochemical and Biophysical Research Communications*, **2022**, 605, 70-81	3.4	2
635	Dysregulated light/dark cycle impairs sleep and delays the recovery of patients in intensive care units: A call for action for COVID-19 treatment.. *Chronobiology International*, **2022**, 1-4	3.6	1
634	Melatonin: A mitochondrial resident with a diverse skill set.. *Life Sciences*, **2022**, 301, 120612	6.8	3
633	Protective actions of vitamin D, anandamide and melatonin during vascular inflammation: Epigenetic mechanisms involved. *Life Sciences*, **2021**, 288, 120191	6.8	2
632	Melatonin and Pathological Cell Interactions: Mitochondrial Glucose Processing in Cancer Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6

631	Co-administration of melatonin and insulin improves diabetic-induced impairment of rat kidney function. *Neuroendocrinology*, **2021**,	5.6	4
630	Differential expression and interaction of melatonin and thyroid hormone receptors with estrogen receptor Improve ovarian functions in letrozole-induced rat polycystic ovary syndrome. *Life Sciences*, **2021**, 120086	6.8	0
629	Melatonin as a Therapeutic Agent for the Inhibition of Hypoxia-Induced Tumor Progression: A Description of Possible Mechanisms Involved. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
628	Evidence of melatonin ameliorative effects on the blood-testis barrier and sperm quality alterations induced by cadmium in the rat testis. *Ecotoxicology and Environmental Safety*, **2021**, 226, 112878	7	6
627	Potentiating the Benefits of Melatonin through Chemical Functionalization: Possible Impact on Multifactorial Neurodegenerative Disorders. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
626	Mitochondrial function is controlled by melatonin and its metabolites in vitro in human melanoma cells. *Journal of Pineal Research*, **2021**, 70, e12728	10.4	5
625	Potential Effects of Melatonin and Micronutrients on Mitochondrial Dysfunction during a Cytokine Storm Typical of Oxidative/Inflammatory Diseases. *Diseases (Basel, Switzerland)*, **2021**, 9,	4.4	10
624	Melatonin inhibits seed germination by crosstalk with abscisic acid, gibberellin, and auxin in Arabidopsis. *Journal of Pineal Research*, **2021**, 70, e12736	10.4	14
623	'Distant socializing,' not 'social distancing' as a public health strategy for COVID-19. *Pathogens and Global Health*, **2021**, 115, 357-364	3.1	3
622	Evaluation of Polymeric Matrix Loaded with Melatonin for Wound Dressing. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
621	A hypothetical role for autophagy during the day/night rhythm-regulated melatonin synthesis in the rat pineal gland. *Journal of Pineal Research*, **2021**, 71, e12742	10.4	2
620	Melatonin and Cardioprotection in Humans: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 635083	5.4	6
619	Exosomes and Melatonin: Where Their Destinies Intersect. *Frontiers in Immunology*, **2021**, 12, 692022	8.4	4
618	Melatonin-Loaded Nanocarriers: New Horizons for Therapeutic Applications. *Molecules*, **2021**, 26,	4.8	9
617	FLUCTUATIONS IN MELATONIN CONTENT AND ITS EFFECTS ON THE AGEING PROCESS OF LETTUCE SEEDS DURING STORAGE. *Acta Scientiarum Polonorum, Hortorum Cultus*, **2021**, 20, 77-88	1.6	0
616	Altered Expression of DAAM1 and PREP Induced by Cadmium Toxicity Is Counteracted by Melatonin in the Rat Testis. *Genes*, **2021**, 12,	4.2	4
615	Melatonin and other indoles show antiviral activities against swine coronaviruses in vitro at pharmacological concentrations. *Journal of Pineal Research*, **2021**, 71, e12754	10.4	7
614	An Examination of the Putative Role of Melatonin in Exosome Biogenesis. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 686551	5.7	6

613	The Mechanism of Oral Melatonin Ameliorates Intestinal and Adipose Lipid Dysmetabolism Through Reducing Escherichia Coli-Derived Lipopolysaccharide. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**, 12, 1643-1667	7.9	1
612	Melatonin and morphine: potential beneficial effects of co-use. *Fundamental and Clinical Pharmacology*, **2021**, 35, 25-39	3.1	11
611	Switching diseased cells from cytosolic aerobic glycolysis to mitochondrial oxidative phosphorylation: A metabolic rhythm regulated by melatonin?. *Journal of Pineal Research*, **2021**, 70, e12677	10.4	11
610	Regulation of cancer cell glucose metabolism is determinant for cancer cell fate after melatonin administration. *Journal of Cellular Physiology*, **2021**, 236, 27-40	7	11
609	Maternal pineal melatonin in gestation and lactation physiology, and in fetal development and programming. *General and Comparative Endocrinology*, **2021**, 300, 113633	3	10
608	Phytomelatonin: An Emerging Regulator of Plant Biotic Stress Resistance. *Trends in Plant Science*, **2021**, 26, 70-82	13.1	41
607	Central and peripheral actions of melatonin on reproduction in seasonal and continuous breeding mammals. *General and Comparative Endocrinology*, **2021**, 300, 113620	3	10
606	First evidence of the protective role of melatonin in counteracting cadmium toxicity in the rat ovary via the mTOR pathway. *Environmental Pollution*, **2021**, 270, 116056	9.3	9
605	Lighting the way: advances in transcriptional regulation and integrative crosstalk of melatonin biosynthetic enzymes in cassava. *Journal of Experimental Botany*, **2021**, 72, 161-166	7	8
604	The dual interplay of RAV5 in activating nitrate reductases and repressing catalase activity to improve disease resistance in cassava. *Plant Biotechnology Journal*, **2021**, 19, 785-800	11.6	11
603	Role of Melatonin on Virus-Induced Neuropathogenesis-A Concomitant Therapeutic Strategy to Understand SARS-CoV-2 Infection. *Antioxidants*, **2021**, 10,	7.1	8
602	Melatonin: A potential therapeutic agent against COVID-19. *Melatonin Research*, **2021**, 4, 30-69	5.1	5
601	Melatonin: A Potential Agent in Delaying Leaf Senescence. *Critical Reviews in Plant Sciences*, **2021**, 40, 1-22	5.6	13
600	Sirtuins and the circadian clock interplay in cardioprotection: focus on sirtuin 1. *Cellular and Molecular Life Sciences*, **2021**, 78, 2503-2515	10.3	14
599	Anti-Warburg Effect of Melatonin: A Proposed Mechanism to Explain its Inhibition of Multiple Diseases. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	22
598	Melatonin as an Antitumor Agent against Liver Cancer: An Updated Systematic Review. *Antioxidants*, **2021**, 10,	7.1	10
597	Therapeutic targets of cancer drugs: Modulation by melatonin. *Life Sciences*, **2021**, 267, 118934	6.8	4
596	Detection of Serotonin, Melatonin, and Their Metabolites in Honey.. *ACS Food Science & Technology*, **2021**, 1, 1228-1235		0

595	Melatonin inhibits lung cancer development by reversing the Warburg effect via stimulating the SIRT3/PDH axis. *Journal of Pineal Research*, **2021**, 71, e12755	10.4	8
594	SARS-CoV-2 and other coronaviruses negatively influence mitochondrial quality control: beneficial effects of melatonin. *Pharmacology & Therapeutics*, **2021**, 224, 107825	13.9	11
593	Part-time cancers and role of melatonin in determining their metabolic phenotype. *Life Sciences*, **2021**, 278, 119597	6.8	8
592	Melatonin and Carbohydrate Metabolism in Plant Cells. *Plants*, **2021**, 10,	4.5	7
591	Melatonin enhances radiofrequency-induced NK antitumor immunity, causing cancer metabolism reprogramming and inhibition of multiple pulmonary tumor development. *Signal Transduction and Targeted Therapy*, **2021**, 6, 330	21	3
590	Metal ion homeostasis with emphasis on zinc and copper: Potential crucial link to explain the non-classical antioxidative properties of vitamin D and melatonin. *Life Sciences*, **2021**, 281, 119770	6.8	1
589	Melatonin: Regulation of Biomolecular Condensates in Neurodegenerative Disorders. *Antioxidants*, **2021**, 10,	7.1	6
588	Melatonin synthesis genes N-acetylserotonin methyltransferases evolved into caffeic acid O-methyltransferases and both assisted in plant terrestrialization. *Journal of Pineal Research*, **2021**, 71, e12737	10.4	4
587	Targeting autophagy in ischemic stroke: From molecular mechanisms to clinical therapeutics. *Pharmacology & Therapeutics*, **2021**, 225, 107848	13.9	18
586	Pan-cancer analyses reveal genomics and clinical characteristics of the melatonergic regulators in cancer. *Journal of Pineal Research*, **2021**, 71, e12758	10.4	4
585	Plant-derived melatonin from food: a gift of nature. *Food and Function*, **2021**, 12, 2829-2849	6.1	7
584	Neural glymphatic system: Clinical implications and potential importance of melatonin. *Melatonin Research*, **2021**, 4, 551-565	5.1	2
583	Fine-tuning of pathogenesis-related protein 1 (PR1) activity by the melatonin biosynthetic enzyme ASMT2 in defense response to cassava bacterial blight.. *Journal of Pineal Research*, **2021**, e12784	10.4	2
582	Melatonin Administration from 2000 to 2020 to Human Newborns with Hypoxic-Ischemic Encephalopathy. *American Journal of Perinatology*, **2020**,	3.3	4
581	Melatonin supplementation and the effects on clinical and metabolic status in Parkinson's disease: A randomized, double-blind, placebo-controlled trial. *Clinical Neurology and Neurosurgery*, **2020**, 195, 105878	2	17
580	Melatonin synthesis enzymes interact with ascorbate peroxidase to protect against oxidative stress in cassava. *Journal of Experimental Botany*, **2020**, 71, 5645-5655	7	10
579	Therapeutic Algorithm for Use of Melatonin in Patients With COVID-19. *Frontiers in Medicine*, **2020**, 7, 226	4.9	57
578	Lungs as target of COVID-19 infection: Protective common molecular mechanisms of vitamin D and melatonin as a new potential synergistic treatment. *Life Sciences*, **2020**, 254, 117808	6.8	68

577	Utilizing Melatonin to Alleviate Side Effects of Chemotherapy: A Potentially Good Partner for Treating Cancer with Ageing. *Oxidative Medicine and Cellular Longevity*, **2020**, 2020, 6841581	6.7	11
576	Is melatonin deficiency a unifying pathomechanism of high risk patients with COVID-19?. *Life Sciences*, **2020**, 256, 117902	6.8	7
575	An evolutionary view of melatonin synthesis and metabolism related to its biological functions in plants. *Journal of Experimental Botany*, **2020**, 71, 4677-4689	7	45
574	Use of Melatonin in Oxidative Stress Related Neonatal Diseases. *Antioxidants*, **2020**, 9,	7.1	15
573	Acute lung injury: The therapeutic role of Rho kinase inhibitors. *Pharmacological Research*, **2020**, 155, 104736	10.2	42
572	COVID-19: Melatonin as a potential adjuvant treatment. *Life Sciences*, **2020**, 250, 117583	6.8	334
571	The dual roles of melatonin biosynthesis enzymes in the coordination of melatonin biosynthesis and autophagy in cassava. *Journal of Pineal Research*, **2020**, 69, e12652	10.4	15
570	Melatonin, coronavirus, cardiovascular disease, and the geriatric emergency: let's use everything we have!. *Revista Espanola De Cardiologia (English Ed)*, **2020**, 73, 1081-1082	0.7	
569	Melatonin in Mitochondria: Mitigating Clear and Present Dangers. *Physiology*, **2020**, 35, 86-95	9.8	36
568	Mitochondrial dysfunction in age-related macular degeneration: melatonin as a potential treatment. *Expert Opinion on Therapeutic Targets*, **2020**, 24, 359-378	6.4	23
567	Daily rhythms of phytomelatonin signaling modulate diurnal stomatal closure via regulating reactive oxygen species dynamics in Arabidopsis. *Journal of Pineal Research*, **2020**, 68, e12640	10.4	31
566	New insights into antimetastatic signaling pathways of melatonin in skeletomuscular sarcoma of childhood and adolescence. *Cancer and Metastasis Reviews*, **2020**, 39, 303-320	9.6	12
565	Melatonin's efficacy in stroke patients; a matter of dose? A systematic review. *Toxicology and Applied Pharmacology*, **2020**, 392, 114933	4.6	10
564	Immune-pineal axis protects rat lungs exposed to polluted air. *Journal of Pineal Research*, **2020**, 68, e12636	10.4	16
563	Importance of Melatonin in Assisted Reproductive Technology and Ovarian Aging. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	56
562	Melatonin inhibits Warburg-dependent cancer by redirecting glucose oxidation to the mitochondria: a mechanistic hypothesis. *Cellular and Molecular Life Sciences*, **2020**, 77, 2527-2542	10.3	33
561	Daily and seasonal mitochondrial protection: Unraveling common possible mechanisms involving vitamin D and melatonin. *Journal of Steroid Biochemistry and Molecular Biology*, **2020**, 199, 105595	5.1	26
560	Effects of miR-34b/miR-892a Upregulation and Inhibition of ABCB1/ABCB4 on Melatonin-Induced Apoptosis in VCR-Resistant Oral Cancer Cells. *Molecular Therapy - Nucleic Acids*, **2020**, 19, 877-889	10.7	23

559	Cardioprotective Role of Melatonin in Acute Myocardial Infarction. *Frontiers in Physiology*, **2020**, 11, 366	4.6	19
558	Melatonin inhibits Benzo(a)pyrene-Induced apoptosis through activation of the Mir-34a/Sirt1/autophagy pathway in mouse liver. *Ecotoxicology and Environmental Safety*, **2020**, 196, 110556	7	20
557	Exogenous melatonin improves cotton (Gossypium hirsutum L.) pollen fertility under drought by regulating carbohydrate metabolism in male tissues. *Plant Physiology and Biochemistry*, **2020**, 151, 579-588	5.4	18
556	Melatonin: An atypical hormone with major functions in the regulation of angiogenesis. *IUBMB Life*, **2020**, 72, 1560-1584	4.7	9
555	Melatonin and cannabinoids: mitochondrial-targeted molecules that may reduce inflammaging in neurodegenerative diseases. *Histology and Histopathology*, **2020**, 35, 789-800	1.4	7
554	Treatment of ebola and other infectious diseases: melatonin goes viral. *Melatonin Research*, **2020**, 3, 43-57	5.1	34
553	Melatonin inhibits human melanoma cells proliferation and invasion via cell cycle arrest and cytoskeleton remodeling. *Melatonin Research*, **2020**, 3, 194-209	5.1	3
552	Melatonin, cardiovascular disease and COVID-19: A potential therapeutic strategy?. *Melatonin Research*, **2020**, 3, 318-321	5.1	4
551	Plasticity of glucose metabolism in activated immune cells: advantages for melatonin inhibition of COVID-19 disease. *Melatonin Research*, **2020**, 3, 362-379	5.1	18
550	Low melatonin as a contributor to SARS-CoV-2 disease. *Melatonin Research*, **2020**, 3, 558-576	5.1	4
549	Crosstalk between endoplasmic reticulum stress and anti-viral activities: A novel therapeutic target for COVID-19. *Life Sciences*, **2020**, 255, 117842	6.8	52
548	Role of melatonin in controlling angiogenesis under physiological and pathological conditions. *Angiogenesis*, **2020**, 23, 91-104	10.6	47
547	Melatonin promotes metabolism of bisphenol A by enhancing glutathione-dependent detoxification in Solanum lycopersicum L. *Journal of Hazardous Materials*, **2020**, 388, 121727	12.8	12
546	Characterization of serotonin and N-acetylserotonin systems in the human epidermis and skin cells. *Journal of Pineal Research*, **2020**, 68, e12626	10.4	15
545	Melatonin: A Potential Therapeutic Option for Breast Cancer. *Trends in Endocrinology and Metabolism*, **2020**, 31, 859-871	8.8	10
544	Elderly as a High-risk Group during COVID-19 Pandemic: Effect of Circadian Misalignment, Sleep Dysregulation and Melatonin Administration. *Sleep and Vigilance*, **2020**, 4, 1-7	1.4	29
543	Melatonin Induces Melanogenesis in Human SK-MEL-1 Melanoma Cells Involving Glycogen Synthase Kinase-3 and Reactive Oxygen Species. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
542	Coronavirus Disease 2019 (COVID-19) and Its Neuroinvasive Capacity: Is It Time for Melatonin?. *Cellular and Molecular Neurobiology*, **2020**, 1	4.6	13

541	ALDH2 contributes to melatonin-induced protection against APP/PS1 mutation-prompted cardiac anomalies through cGAS-STING-TBK1-mediated regulation of mitophagy. *Signal Transduction and Targeted Therapy*, **2020**, 5, 119	21	27
540	Melatonin as an inducer of arecoline and their coordinated roles in anti-oxidative activity and immune responses. *Food and Function*, **2020**, 11, 8788-8799	6.1	3
539	A meta-analysis of microRNA networks regulated by melatonin in cancer: Portrait of potential candidates for breast cancer treatment. *Journal of Pineal Research*, **2020**, 69, e12693	10.4	15
538	Clinical Trials for Use of Melatonin to Fight against COVID-19 Are Urgently Needed. *Nutrients*, **2020**, 12,	6.7	32
537	Melatonin as a potential inhibitor of kidney cancer: A survey of the molecular processes. *IUBMB Life* , **2020**, 72, 2355-2365	4.7	5
536	Melatonin overcomes MCR-mediated colistin resistance in Gram-negative pathogens. *Theranostics*, **2020**, 10, 10697-10711	12.1	19
535	Melatonin Improves Mitochondrial Dynamics and Function in the Kidney of Z□ker Diabetic Fatty Rats. *Journal of Clinical Medicine*, **2020**, 9,	5.1	12
534	Melatonin Ameliorates Inflammation and Oxidative Stress by Suppressing the p38MAPK Signaling Pathway in LPS-Induced Sheep Orchitis. *Antioxidants*, **2020**, 9,	7.1	7
533	The Effects of Melatonin Supplementation on Parameters of Mental Health, Glycemic Control, Markers of Cardiometabolic Risk, and Oxidative Stress in Diabetic Hemodialysis Patients: A Randomized, Double-Blind, Placebo-Controlled Trial. *Journal of Renal Nutrition*, **2020**, 30, 242-250	3	20
532	Identification of a novel melatonin-binding nuclear receptor: Vitamin D receptor. *Journal of Pineal Research*, **2020**, 68, e12618	10.4	16
531	Melatonin mediates mucosal immune cells, microbial metabolism, and rhythm crosstalk: A therapeutic target to reduce intestinal inflammation. *Medicinal Research Reviews*, **2020**, 40, 606-632	14.4	61
530	Melatonin and Parkinson Disease: Current Status and Future Perspectives for Molecular Mechanisms. *Cellular and Molecular Neurobiology*, **2020**, 40, 15-23	4.6	21
529	Melatonin: Roles in influenza, Covid-19, and other viral infections. *Reviews in Medical Virology*, **2020**, 30, e2109	11.7	95
528	Melatonin: A hypothesis regarding its use to treat Wilson disease. *Medical Hypotheses*, **2019**, 133, 109408	3.8	3
527	Hypocotyl Elongation Inhibition of Melatonin Is Involved in Repressing Brassinosteroid Biosynthesis in. *Frontiers in Plant Science*, **2019**, 10, 1082	6.2	10
526	Melatonin: A new inhibitor agent for cervical cancer treatment. *Journal of Cellular Physiology*, **2019**, 234, 21670-21682	7	40
525	Melatonin and non-small cell lung cancer: new insights into signaling pathways. *Cancer Cell International*, **2019**, 19, 131	6.4	26
524	Stimuli-Responsive Nanocapsules for the Spatiotemporal Release of Melatonin: Protection against Gastric Inflammation.. *ACS Applied Bio Materials*, **2019**, 2, 5218-5226	4.1	13

523	Melatonin as a potential inhibitor of colorectal cancer: Molecular mechanisms. *Journal of Cellular Biochemistry*, **2019**, 120, 12216-12223	4.7	5
522	Different routes and formulations of melatonin in critically ill patients. A pharmacokinetic randomized study. *Clinical Endocrinology*, **2019**, 91, 209-218	3.4	2
521	Melatonin stabilizes rupture-prone vulnerable plaques via regulating macrophage polarization in a nuclear circadian receptor RORdependent manner. *Journal of Pineal Research*, **2019**, 67, e12581	10.4	48
520	Melatonin is an appropriate candidate for breast cancer treatment: Based on known molecular mechanisms. *Journal of Cellular Biochemistry*, **2019**, 120, 12208-12215	4.7	9
519	Melatonin Synthesis and Function: Evolutionary History in Animals and Plants. *Frontiers in Endocrinology*, **2019**, 10, 249	5.7	209
518	Melatonin delays leaf senescence of Chinese flowering cabbage by suppressing ABFs-mediated abscisic acid biosynthesis and chlorophyll degradation. *Journal of Pineal Research*, **2019**, 67, e12570	10.4	45
517	Melatonin is a potential inhibitor of ovarian cancer: molecular aspects. *Journal of Ovarian Research*, **2019**, 12, 26	5.5	17
516	The potential utility of melatonin in the treatment of childhood cancer. *Journal of Cellular Physiology*, **2019**, 234, 19158-19166	7	3
515	The emergence of melatonin in oncology: Focus on colorectal cancer. *Medicinal Research Reviews*, **2019**, 39, 2239-2285	14.4	32
514	The therapeutic role of long non-coding RNAs in human diseases: A focus on the recent insights into autophagy. *Pharmacological Research*, **2019**, 142, 22-29	10.2	30
513	Exogenous melatonin as a treatment for secondary sleep disorders: A systematic review and meta-analysis. *Frontiers in Neuroendocrinology*, **2019**, 52, 22-28	8.9	59
512	The effects of melatonin supplementation on mental health, metabolic and genetic profiles in patients under methadone maintenance treatment. *Addiction Biology*, **2019**, 24, 754-764	4.6	29
511	Melatonin, a calpain inhibitor in the central nervous system: Current status and future perspectives. *Journal of Cellular Physiology*, **2019**, 234, 1001-1007	7	12
510	Antioxidant and Pro-Oxidant Activities of Melatonin in the Presence of Copper and Polyphenols In Vitro and In Vivo. *Cells*, **2019**, 8,	7.9	20
509	Melatonin Improves the Fertilization Capacity of Sex-Sorted Bull Sperm by Inhibiting Apoptosis and Increasing Fertilization Capacitation via MT1. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	8
508	Resveratrol is a promising agent for colorectal cancer prevention and treatment: focus on molecular mechanisms. *Cancer Cell International*, **2019**, 19, 180	6.4	60
507	Inhibition of SERPINA3N-dependent neuroinflammation is essential for melatonin to ameliorate trimethyltin chloride-induced neurotoxicity. *Journal of Pineal Research*, **2019**, 67, e12596	10.4	18
506	Melatonin and (-)-Epigallocatechin-3-Gallate: Partners in Fighting Cancer. *Cells*, **2019**, 8,	7.9	12

505	Melatonin prevents cadmium-induced bone damage: First evidence on an improved osteogenic/adipogenic differentiation balance of mesenchymal stem cells as underlying mechanism. *Journal of Pineal Research*, **2019**, 67, e12597	10.4	25
504	Curcumin and its analogues protect from endoplasmic reticulum stress: Mechanisms and pathways. *Pharmacological Research*, **2019**, 146, 104335	10.2	34
503	The role of MicroRNAs on endoplasmic reticulum stress in myocardial ischemia and cardiac hypertrophy. *Pharmacological Research*, **2019**, 150, 104516	10.2	27
502	Melatonin exerts oncostatic capacity and decreases melanogenesis in human MNT-1 melanoma cells. *Journal of Pineal Research*, **2019**, 67, e12610	10.4	14
501	The Effect of Resveratrol on Neurodegenerative Disorders: Possible Protective Actions Against Autophagy, Apoptosis, Inflammation and Oxidative Stress. *Current Pharmaceutical Design*, **2019**, 25, 2178-2191	3.3	21
500	Molecular Aspects of Melatonin Treatment in Tinnitus: A Review. *Current Drug Targets*, **2019**, 20, 1112-1128	3	15
499	Mitochondria: the birth place, battle ground and the site of melatonin metabolism in cells. *Melatonin Research*, **2019**, 2, 44-66	5.1	99
498	Clock genes and the role of melatonin in cancer cells: an overview. *Melatonin Research*, **2019**, 2, 133-157	5.1	17
497	Inhibition of mitochondrial pyruvate dehydrogenase kinase: a proposed mechanism by which melatonin causes cancer cells to overcome cytosolic glycolysis, reduce tumor biomass and reverse insensitivity to chemotherapy. *Melatonin Research*, **2019**, 2, 105-119	5.1	35
496	Mitochondria: the birth place, battle ground and the site of melatonin metabolism in cells. *Melatonin Research*, **2019**, 2, 44-66	5.1	37
495	The altruism of melatonin: A molecule that protects, heals, and even takes care of the night-shift duties **2019**, 43-45		
494	Melatonin Promotes Uterine and Placental Health: Potential Molecular Mechanisms. *International Journal of Molecular Sciences*, **2019**, 21,	6.3	24
493	Melatonin suppresses lung cancer metastasis by inhibition of epithelial-mesenchymal transition through targeting to Twist. *Clinical Science*, **2019**, 133, 709-722	6.5	26
492	Effects of melatonin administration on mental health parameters, metabolic and genetic profiles in women with polycystic ovary syndrome: A randomized, double-blind, placebo-controlled trial. *Journal of Affective Disorders*, **2019**, 250, 51-56	6.6	37
491	The role of melatonin in targeting cell signaling pathways in neurodegeneration. *Annals of the New York Academy of Sciences*, **2019**, 1443, 75-96	6.5	26
490	Molecular and Cellular Mechanisms of Melatonin in Osteosarcoma. *Cells*, **2019**, 8,	7.9	21
489	Interaction of melatonin and Bmal1 in the regulation of PI3K/AKT pathway components and cellular survival. *Scientific Reports*, **2019**, 9, 19082	4.9	31
488	Melatonin and pancreatic cancer: Current knowledge and future perspectives. *Journal of Cellular Physiology*, **2019**, 234, 5372-5378	7	23

487	Protective stabilization of mitochondrial permeability transition and mitochondrial oxidation during mitochondrial Ca stress by melatonin's cascade metabolites C3-OHM and AFMK in RBA1 astrocytes. *Journal of Pineal Research*, **2019**, 66, e12538	10.4	12
486	Melatonin and its metabolites as chemical agents capable of directly repairing oxidized DNA. *Journal of Pineal Research*, **2019**, 66, e12539	10.4	26
485	Obesity-associated alterations in cardiac connexin-43 and PKC signaling are attenuated by melatonin and omega-3 fatty acids in female rats. *Molecular and Cellular Biochemistry*, **2019**, 454, 191-202	4.2	14
484	Mitochondrial functions and melatonin: a tour of the reproductive cancers. *Cellular and Molecular Life Sciences*, **2019**, 76, 837-863	10.3	27
483	Potential use of melatonin in skin cancer treatment: A review of current biological evidence. *Journal of Cellular Physiology*, **2019**, 234, 12142-12148	7	23
482	The effects of melatonin supplementation on blood pressure in patients with metabolic disorders: a systematic review and meta-analysis of randomized controlled trials. *Journal of Human Hypertension*, **2019**, 33, 202-209	2.6	9
481	Pan-cancer genomic analyses reveal prognostic and immunogenic features of the tumor melatonergic microenvironment across 14 solid cancer types. *Journal of Pineal Research*, **2019**, 66, e12557	10.4	18
480	Melatonin, a toll-like receptor inhibitor: Current status and future perspectives. *Journal of Cellular Physiology*, **2019**, 234, 7788-7795	7	15
479	Therapeutic potential of melatonin related to its role as an autophagy regulator: A review. *Journal of Pineal Research*, **2019**, 66, e12534	10.4	93
478	Melatonin administration lowers biomarkers of oxidative stress and cardio-metabolic risk in type 2 diabetic patients with coronary heart disease: A randomized, double-blind, placebo-controlled trial. *Clinical Nutrition*, **2019**, 38, 191-196	5.9	61
477	Zinc finger of Arabidopsis thaliana 6 is involved in melatonin-mediated auxin signaling through interacting INDETERMINATE DOMAIN15 and INDOLE-3-ACETIC ACID 17. *Journal of Pineal Research*, **2018**, 65, e12494	10.4	11
476	The multiple functions of melatonin in regenerative medicine. *Ageing Research Reviews*, **2018**, 45, 33-52	12	44
475	Functional Interaction between Melatonin Signaling and Noncoding RNAs. *Trends in Endocrinology and Metabolism*, **2018**, 29, 435-445	8.8	30
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