

David R Weaver

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1409258/david-r-weaver-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

21,036
citations

56
h-index

114
g-index

114
ext. papers

22,519
ext. citations

10.5
avg, IF

6.7
L-index

#	Paper	IF	Citations
112	Coordination of circadian timing in mammals. <i>Nature</i> , 2002 , 418, 935-41	50.4	3251
111	mCRY1 and mCRY2 are essential components of the negative limb of the circadian clock feedback loop. <i>Cell</i> , 1999 , 98, 193-205	56.2	1270
110	Molecular analysis of mammalian circadian rhythms. <i>Annual Review of Physiology</i> , 2001 , 63, 647-76	23.1	1146
109	Interacting molecular loops in the mammalian circadian clock. <i>Science</i> , 2000 , 288, 1013-9	33.3	1082
108	Cloning and characterization of a mammalian melatonin receptor that mediates reproductive and circadian responses. <i>Neuron</i> , 1994 , 13, 1177-85	13.9	911
107	A molecular mechanism regulating rhythmic output from the suprachiasmatic circadian clock. <i>Cell</i> , 1999 , 96, 57-68	56.2	770
106	Three period homologs in mammals: differential light responses in the suprachiasmatic circadian clock and oscillating transcripts outside of brain. <i>Neuron</i> , 1998 , 20, 1103-10	13.9	760
105	Differential functions of mPer1, mPer2, and mPer3 in the SCN circadian clock. <i>Neuron</i> , 2001 , 30, 525-36	13.9	699
104	Two period homologs: circadian expression and photic regulation in the suprachiasmatic nuclei. <i>Neuron</i> , 1997 , 19, 1261-9	13.9	654
103	Molecular dissection of two distinct actions of melatonin on the suprachiasmatic circadian clock. <i>Neuron</i> , 1997 , 19, 91-102	13.9	593
102	Prokineticin 2 transmits the behavioural circadian rhythm of the suprachiasmatic nucleus. <i>Nature</i> , 2002 , 417, 405-10	50.4	585
101	Molecular cloning of the rat A2 adenosine receptor: selective co-expression with D2 dopamine receptors in rat striatum. <i>Molecular Brain Research</i> , 1992 , 14, 186-95		559
100	Cellular construction of a circadian clock: period determination in the suprachiasmatic nuclei. <i>Cell</i> , 1997 , 91, 855-60	56.2	409
99	The suprachiasmatic nucleus: a 25-year retrospective. <i>Journal of Biological Rhythms</i> , 1998 , 13, 100-12	3.2	377
98	Mammalian melatonin receptors: molecular biology and signal transduction. <i>Cell and Tissue Research</i> , 2002 , 309, 151-62	4.2	367
97	CLOCK and NPAS2 have overlapping roles in the suprachiasmatic circadian clock. <i>Nature Neuroscience</i> , 2007 , 10, 543-5	25.5	365
96	A clock shock: mouse CLOCK is not required for circadian oscillator function. <i>Neuron</i> , 2006 , 50, 465-77	13.9	350

95	Melatonin receptors step into the light: cloning and classification of subtypes. <i>Trends in Pharmacological Sciences</i> , 1996 , 17, 100-2	13.2	343
94	Analysis of clock proteins in mouse SCN demonstrates phylogenetic divergence of the circadian clockwork and resetting mechanisms. <i>Neuron</i> , 2000 , 25, 437-47	13.9	298
93	Molecular cloning and characterization of a rat A1-adenosine receptor that is widely expressed in brain and spinal cord. <i>Molecular Endocrinology</i> , 1991 , 5, 1037-48		298
92	Melatonin receptors are for the birds: molecular analysis of two receptor subtypes differentially expressed in chick brain. <i>Neuron</i> , 1995 , 15, 1003-15	13.9	293
91	Circadian clock proteins regulate neuronal redox homeostasis and neurodegeneration. <i>Journal of Clinical Investigation</i> , 2013 , 123, 5389-400	15.9	264
90	Targeted disruption of the mPer3 gene: subtle effects on circadian clock function. <i>Molecular and Cellular Biology</i> , 2000 , 20, 6269-75	4.8	256
89	Rhythmic gene expression in pituitary depends on heterologous sensitization by the neurohormone melatonin. <i>Nature Neuroscience</i> , 2002 , 5, 234-8	25.5	219
88	Targeted disruption of the mouse Mel(1b) melatonin receptor. <i>Molecular and Cellular Biology</i> , 2003 , 23, 1054-60	4.8	206
87	Melatonin signal transduction in hamster brain: inhibition of adenylyl cyclase by a pertussis toxin-sensitive G protein. <i>Endocrinology</i> , 1989 , 125, 2670-6	4.8	192
86	Disrupting the circadian clock: gene-specific effects on aging, cancer, and other phenotypes. <i>Aging</i> , 2011 , 3, 479-93	5.6	172
85	Melatonin madness. <i>Cell</i> , 1995 , 83, 1059-62	56.2	170
84	The circadian clock protein Period 1 regulates expression of the renal epithelial sodium channel in mice. <i>Journal of Clinical Investigation</i> , 2009 , 119, 2423-34	15.9	162
83	Casein kinase 1 delta regulates the pace of the mammalian circadian clock. <i>Molecular and Cellular Biology</i> , 2009 , 29, 3853-66	4.8	156
82	Molecular analysis of mammalian timeless. <i>Neuron</i> , 1998 , 21, 1115-22	13.9	152
81	A time-less function for mouse timeless. <i>Nature Neuroscience</i> , 2000 , 3, 755-6	25.5	143
80	The period of the circadian oscillator is primarily determined by the balance between casein kinase 1 and protein phosphatase 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16451-6	11.5	138
79	Melatonin receptors in chick brain: characterization and localization. <i>Endocrinology</i> , 1989 , 125, 363-8	4.8	138
78	The polycomb group protein EZH2 is required for mammalian circadian clock function. <i>Journal of Biological Chemistry</i> , 2006 , 281, 21209-21215	5.4	130

77	Peripheral circadian oscillators require CLOCK. <i>Current Biology</i> , 2007 , 17, R538-9	6.3	129
76	Differential regulation of mPER1 and mTIM proteins in the mouse suprachiasmatic nuclei: new insights into a core clock mechanism. <i>Journal of Neuroscience</i> , 1999 , 19, RC11	6.6	129
75	A2a adenosine receptor gene expression in developing rat brain. <i>Molecular Brain Research</i> , 1993 , 20, 313-27		123
74	Direct association between mouse PERIOD and CKIepsilon is critical for a functioning circadian clock. <i>Molecular and Cellular Biology</i> , 2004 , 24, 584-94	4.8	121
73	Cloning of a melatonin-related receptor from human pituitary. <i>FEBS Letters</i> , 1996 , 386, 219-24	3.8	118
72	Sleep rhythmicity and homeostasis in mice with targeted disruption of mPeriod genes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R47-57	3.2	117
71	Melatonin inhibits hippocampal long-term potentiation. <i>European Journal of Neuroscience</i> , 2005 , 22, 2231-7	3.7	111
70	Iodinated melatonin mimics melatonin action and reveals discrete binding sites in fetal brain. <i>FEBS Letters</i> , 1988 , 228, 123-7	3.8	110
69	The Mel1a melatonin receptor gene is expressed in human suprachiasmatic nuclei. <i>NeuroReport</i> , 1996 , 8, 109-12	1.7	106
68	Melatonin plays a crucial role in the regulation of rhythmic clock gene expression in the mouse pars tuberalis. <i>Annals of the New York Academy of Sciences</i> , 2005 , 1040, 508-11	6.5	98
67	The distribution of melatonin binding sites in neuroendocrine tissues of the ewe. <i>Biology of Reproduction</i> , 1990 , 43, 986-93	3.9	97
66	Maternal melatonin communicates daylength to the fetus in Djungarian hamsters. <i>Endocrinology</i> , 1986 , 119, 2861-3	4.8	92
65	Melatonin receptors are present in the ferret pars tuberalis and pars distalis, but not in brain. <i>Endocrinology</i> , 1990 , 127, 2607-9	4.8	90
64	Definition of the developmental transition from dopaminergic to photic regulation of c-fos gene expression in the rat suprachiasmatic nucleus. <i>Molecular Brain Research</i> , 1995 , 33, 136-48		76
63	Localization of parathyroid hormone-related peptide (PTHrP) and PTH/PTHrP receptor mRNAs in rat brain. <i>Molecular Brain Research</i> , 1995 , 28, 296-310		74
62	Serotonin receptor gene expression in the rat suprachiasmatic nuclei. <i>Brain Research</i> , 1993 , 608, 159-65	3.7	74
61	Rhythms in clock proteins in the mouse pars tuberalis depend on MT1 melatonin receptor signalling. <i>European Journal of Neuroscience</i> , 2005 , 22, 2845-54	3.5	70
60	Comparing clockworks: mouse versus fly. <i>Journal of Biological Rhythms</i> , 2000 , 15, 357-64	3.2	70

59	Melatonin receptors and signal transduction in melatonin-sensitive and melatonin-insensitive populations of white-footed mice (<i>Peromyscus leucopus</i>). <i>Brain Research</i> , 1990 , 506, 353-7	3.7	66
58	Altered body mass regulation in male mPeriod mutant mice on high-fat diet. <i>Chronobiology International</i> , 2010 , 27, 1317-28	3.6	65
57	Periodic feeding of SCN-lesioned pregnant rats entrains the fetal biological clock. <i>Developmental Brain Research</i> , 1989 , 46, 291-6		62
56	Melatonin limits transcriptional impact of phosphoCREB in the mouse SCN via the Mel1a receptor. <i>NeuroReport</i> , 2000 , 11, 1803-7	1.7	56
55	Photic induction of Period gene expression is reduced in Clock mutant mice. <i>NeuroReport</i> , 1999 , 10, 613-8	7	54
54	The circadian-gated timing of birth in rats: disruption by maternal SCN lesions or by removal of the fetal brain. <i>Brain Research</i> , 1987 , 403, 398-402	3.7	47
53	Forward genetic approach strikes gold: cloning of a mammalian clock gene. <i>Cell</i> , 1997 , 89, 487-90	56.2	46
52	Analysis of the prokineticin 2 system in a diurnal rodent, the unstriped Nile grass rat (<i>Arvicanthis niloticus</i>). <i>Journal of Biological Rhythms</i> , 2005 , 20, 206-18	3.2	46
51	Penetration of light into the uterus of pregnant animals. <i>Photochemistry and Photobiology</i> , 1987 , 45, 637-41	3.6	44
50	Distinct patterns of Period gene expression in the suprachiasmatic nucleus underlie circadian clock photoentrainment by advances or delays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17219-24	11.5	43
49	A1-adenosine receptor gene expression in fetal rat brain. <i>Developmental Brain Research</i> , 1996 , 94, 205-223		43
48	Melatonin receptors and signal transduction during development in Siberian hamsters (<i>Phodopus sungorus</i>). <i>Developmental Brain Research</i> , 1991 , 59, 83-8		42
47	The Circadian Clock Gene Coordinates Intestinal Regeneration. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017 , 4, 95-114	7.9	41
46	Light does not degrade the constitutively expressed BMAL1 protein in the mouse suprachiasmatic nucleus. <i>European Journal of Neuroscience</i> , 2003 , 18, 125-33	3.5	40
45	Loss of responsiveness to melatonin in the aging mouse suprachiasmatic nucleus. <i>Neurobiology of Aging</i> , 2008 , 29, 464-70	5.6	39
44	Casein kinase 1 delta (CK1delta) regulates period length of the mouse suprachiasmatic circadian clock in vitro. <i>PLoS ONE</i> , 2010 , 5, e10303	3.7	39
43	The hepatic circadian clock modulates xenobiotic metabolism in mice. <i>Journal of Biological Rhythms</i> , 2014 , 29, 277-87	3.2	35
42	Light-induced phase shifts in mice lacking mPER1 or mPER2. <i>Journal of Biological Rhythms</i> , 2003 , 18, 123-33	3.2	34

41	Single-Cell Transcriptional Analysis Reveals Novel Neuronal Phenotypes and Interaction Networks Involved in the Central Circadian Clock. <i>Frontiers in Neuroscience</i> , 2016 , 10, 481	5.1	34
40	Reproductive safety of melatonin: a "wonder drug" to wonder about. <i>Journal of Biological Rhythms</i> , 1997 , 12, 682-9	3.2	33
39	c-fos and jun-B mRNAs are transiently expressed in fetal rodent suprachiasmatic nucleus following dopaminergic stimulation. <i>Developmental Brain Research</i> , 1995 , 85, 293-7		33
38	[125I]4-aminobenzyl-5FN-methylcarboxamidoadenosine (125I)AB-MECA) labels multiple adenosine receptor subtypes in rat brain. <i>Brain Research</i> , 1997 , 745, 10-20	3.7	32
37	Widespread expression of functional D1-dopamine receptors in fetal rat brain. <i>Developmental Brain Research</i> , 1997 , 102, 105-15		31
36	Direct in utero perception of light by the mammalian fetus. <i>Developmental Brain Research</i> , 1989 , 47, 151-5		28
35	Desynchrony between brain and peripheral clocks caused by CK1 δ disruption in GABA neurons does not lead to adverse metabolic outcomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E2437-E2446	11.5	25
34	Deletion of the secretory vesicle proteins IA-2 and IA-2beta disrupts circadian rhythms of cardiovascular and physical activity. <i>FASEB Journal</i> , 2009 , 23, 3226-32	0.9	24
33	Peripheral gene expression rhythms in a diurnal rodent. <i>Journal of Biological Rhythms</i> , 2006 , 21, 77-9	3.2	24
32	Photic resetting and entrainment in CLOCK-deficient mice. <i>Journal of Biological Rhythms</i> , 2011 , 26, 390-401	3.2	22
31	Antibodies for assessing circadian clock proteins in the rodent suprachiasmatic nucleus. <i>PLoS ONE</i> , 2012 , 7, e35938	3.7	20
30	Transient, light-induced rhythmicity in mPer-deficient mice. <i>Journal of Biological Rhythms</i> , 2007 , 22, 85-83	3.2	17
29	Periodic Parasites and Daily Host Rhythms. <i>Cell Host and Microbe</i> , 2020 , 27, 176-187	23.4	16
28	Functionally Complete Excision of Conditional Alleles in the Mouse Suprachiasmatic Nucleus by Vgat-ires-Cre. <i>Journal of Biological Rhythms</i> , 2018 , 33, 179-191	3.2	15
27	Integrative gene regulatory network analysis reveals light-induced regional gene expression phase shift programs in the mouse suprachiasmatic nucleus. <i>PLoS ONE</i> , 2012 , 7, e37833	3.7	14
26	Development and validation of computational models for mammalian circadian oscillators. <i>OMICS A Journal of Integrative Biology</i> , 2003 , 7, 387-400	3.8	13
25	Vascular rhythms and adaptation: do your arteries know what time it is?. <i>Circulation</i> , 2009 , 119, 1463-6	16.7	11
24	Rhythmic expression of clock genes in the ependymal cell layer of the third ventricle of rodents is independent of melatonin signaling. <i>European Journal of Neuroscience</i> , 2008 , 28, 2443-50	3.5	11

23	Distinct pharmacological mechanisms leading to c-fos gene expression in the fetal suprachiasmatic nucleus. <i>Journal of Biological Rhythms</i> , 2001 , 16, 531-40	3.2	11
22	Circadian and developmental regulation of Oct-2 gene expression in the suprachiasmatic nuclei. <i>Brain Research</i> , 1992 , 598, 332-6	3.7	10
21	The roles of melatonin in development. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 460, 199-214	3.6	9
20	Nicotinic cholinergic influences on sexual receptivity in female rats. <i>Pharmacology Biochemistry and Behavior</i> , 1987 , 26, 393-400	3.9	9
19	Disruption of gene expression rhythms in mice lacking secretory vesicle proteins IA-2 and IA-2 β . <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012 , 303, E762-76	6	8
18	Molecular cloning of a G protein-coupled receptor that is highly expressed in lymphocytes and proliferative areas of developing brain. <i>Molecular and Cellular Neurosciences</i> , 1992 , 3, 206-14	4.8	8
17	Clocks and meals keep mice from being cool. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	7
16	Introduction to Circadian Rhythms and Mechanisms of Circadian Oscillations 2016 , 1-55		6
15	Haloperidol regulates neurotensin gene expression in striatum of c-fos-deficient mice. <i>Molecular Brain Research</i> , 1997 , 47, 275-85		6
14	Postmortem stability of melatonin receptor binding and clock-relevant mRNAs in mouse suprachiasmatic nucleus. <i>Journal of Biological Rhythms</i> , 2001 , 16, 216-23	3.2	6
13	Deconstructing circadian disruption: Assessing the contribution of reduced peripheral oscillator amplitude on obesity and glucose intolerance in mice. <i>Journal of Pineal Research</i> , 2020 , 69, e12654	10.4	5
12	Circadian Timekeeping 2013 , 819-845		5
11	PER1-like immunoreactivity in oxytocin cells of the hamster hypothalamo-neurohypophyseal system. <i>Journal of Biological Rhythms</i> , 2007 , 22, 81-4	3.2	4
10	Molecular Biology of Circadian Rhythms. <i>Genes, Brain and Behavior</i> , 2005 , 4, 126-127	3.6	3
9	Targeted Disruption of the mPer3 Gene: Subtle Effects on Circadian Clock Function. <i>Molecular and Cellular Biology</i> , 2000 , 20, 6269-6275	4.8	2
8	Cell-type specific circadian bioluminescence rhythms in Dbp reporter mice		2
7	The Influence of Light on the Mammalian Fetus. <i>Proceedings in Life Sciences</i> , 1988 , 149-177		2
6	High-Affinity Melatonin Receptors in Mammals: Localization, G-Protein Coupling and Signal Transduction 1991 , 85-95		2

- 5 A clockwork green. *NeuroReport*, **2000**, 11, F9-F10 1.7 1
- 4 Cell-Type-Specific Circadian Bioluminescence Rhythms in Reporter Mice.. *Journal of Biological Rhythms*, **2022**, 7487304211069452 3.2 1
- 3 Methods for Detecting PER2:LUCIFERASE Bioluminescence Rhythms in Freely Moving Mice. *Journal of Biological Rhythms*, **2021**, 7487304211062829 3.2 1
- 2 Molecular Biology of Circadian Rhythms. *Genes, Brain and Behavior*, **2005**, 4, 126-127 3.6
- 1 Maternal Entrainment of a Fetal Biological Clock **1993**, 93-104