

David R Weaver

List of Publications by Year in Descending Order

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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	Cell-Type-Specific Circadian Bioluminescence Rhythms in Reporter Mice.. <i>Journal of Biological Rhythms</i> , 2022 , 7487304211069452	3.2	1
111	Methods for Detecting PER2:LUCIFERASE Bioluminescence Rhythms in Freely Moving Mice. <i>Journal of Biological Rhythms</i> , 2021 , 7487304211062829	3.2	1
110	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
109	Periodic Parasites and Daily Host Rhythms. <i>Cell Host and Microbe</i> , 2020 , 27, 176-187	23.4	16
108	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
107	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
106	Clocks and meals keep mice from being cool. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	7
105	The Circadian Clock Gene Coordinates Intestinal Regeneration. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2017 , 4, 95-114	7.9	41
104	Introduction to Circadian Rhythms and Mechanisms of Circadian Oscillations 2016 , 1-55		6
103	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
102	The hepatic circadian clock modulates xenobiotic metabolism in mice. <i>Journal of Biological Rhythms</i> , 2014 , 29, 277-87	3.2	35
101	Circadian Timekeeping 2013 , 819-845		5
100	Circadian clock proteins regulate neuronal redox homeostasis and neurodegeneration. <i>Journal of Clinical Investigation</i> , 2013 , 123, 5389-400	15.9	264
99	Antibodies for assessing circadian clock proteins in the rodent suprachiasmatic nucleus. <i>PLoS ONE</i> , 2012 , 7, e35938	3.7	20
98	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
97	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
96	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

95	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
94	Photic resetting and entrainment in CLOCK-deficient mice. <i>Journal of Biological Rhythms</i> , 2011 , 26, 390-401	3.2	22
93	Disrupting the circadian clock: gene-specific effects on aging, cancer, and other phenotypes. <i>Aging</i> , 2011 , 3, 479-93	5.6	172
92	Altered body mass regulation in male mPeriod mutant mice on high-fat diet. <i>Chronobiology International</i> , 2010 , 27, 1317-28	3.6	65
91	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
90	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
89	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
88	Vascular rhythms and adaptation: do your arteries know what time it is?. <i>Circulation</i> , 2009 , 119, 1463-6	16.7	11
87	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
86	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
85	Loss of responsiveness to melatonin in the aging mouse suprachiasmatic nucleus. <i>Neurobiology of Aging</i> , 2008 , 29, 464-70	5.6	39
84	CLOCK and NPAS2 have overlapping roles in the suprachiasmatic circadian clock. <i>Nature Neuroscience</i> , 2007 , 10, 543-5	25.5	365
83	Peripheral circadian oscillators require CLOCK. <i>Current Biology</i> , 2007 , 17, R538-9	6.3	129
82	Transient, light-induced rhythmicity in mPer-deficient mice. <i>Journal of Biological Rhythms</i> , 2007 , 22, 85-83.2	3.2	17
81	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
80	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
79	Peripheral gene expression rhythms in a diurnal rodent. <i>Journal of Biological Rhythms</i> , 2006 , 21, 77-9	3.2	24
78	A clock shock: mouse CLOCK is not required for circadian oscillator function. <i>Neuron</i> , 2006 , 50, 465-77	13.9	350

77	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
76	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
75	Melatonin inhibits hippocampal long-term potentiation. <i>European Journal of Neuroscience</i> , 2005 , 22, 2231-7	3.7	111
74	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
73	Molecular Biology of Circadian Rhythms. <i>Genes, Brain and Behavior</i> , 2005 , 4, 126-127	3.6	
72	Molecular Biology of Circadian Rhythms. <i>Genes, Brain and Behavior</i> , 2005 , 4, 126-127	3.6	3
71	Direct association between mouse PERIOD and CLOCK is critical for a functioning circadian clock. <i>Molecular and Cellular Biology</i> , 2004 , 24, 584-94	4.8	121
70	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
69	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
68	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
67	Light-induced phase shifts in mice lacking mPER1 or mPER2. <i>Journal of Biological Rhythms</i> , 2003 , 18, 123-33	3.2	34
66	Targeted disruption of the mouse Mel(1b) melatonin receptor. <i>Molecular and Cellular Biology</i> , 2003 , 23, 1054-60	4.8	206
65	Mammalian melatonin receptors: molecular biology and signal transduction. <i>Cell and Tissue Research</i> , 2002 , 309, 151-62	4.2	367
64	Coordination of circadian timing in mammals. <i>Nature</i> , 2002 , 418, 935-41	50.4	3251
63	Prokineticin 2 transmits the behavioural circadian rhythm of the suprachiasmatic nucleus. <i>Nature</i> , 2002 , 417, 405-10	50.4	585
62	Rhythmic gene expression in pituitary depends on heterologous sensitization by the neurohormone melatonin. <i>Nature Neuroscience</i> , 2002 , 5, 234-8	25.5	219
61	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
60	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

59	Molecular analysis of mammalian circadian rhythms. <i>Annual Review of Physiology</i> , 2001 , 63, 647-76	23.1	1146
58	Differential functions of mPer1, mPer2, and mPer3 in the SCN circadian clock. <i>Neuron</i> , 2001 , 30, 525-36	13.9	699
57	Melatonin limits transcriptional impact of phosphoCREB in the mouse SCN via the Mel1a receptor. <i>NeuroReport</i> , 2000 , 11, 1803-7	1.7	56
56	A clockwork green. <i>NeuroReport</i> , 2000 , 11, F9-F10	1.7	1
55	A time-less function for mouse timeless. <i>Nature Neuroscience</i> , 2000 , 3, 755-6	25.5	143
54	Comparing clockworks: mouse versus fly. <i>Journal of Biological Rhythms</i> , 2000 , 15, 357-64	3.2	70
53	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
52	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
51	Interacting molecular loops in the mammalian circadian clock. <i>Science</i> , 2000 , 288, 1013-9	33.3	1082
50	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
49	The roles of melatonin in development. <i>Advances in Experimental Medicine and Biology</i> , 1999 , 460, 199-214	3.6	9
48	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
47	A molecular mechanism regulating rhythmic output from the suprachiasmatic circadian clock. <i>Cell</i> , 1999 , 96, 57-68	56.2	770
46	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
45	Photic induction of Period gene expression is reduced in Clock mutant mice. <i>NeuroReport</i> , 1999 , 10, 613-87	8.7	54
44	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
43	Molecular analysis of mammalian timeless. <i>Neuron</i> , 1998 , 21, 1115-22	13.9	152
42	The suprachiasmatic nucleus: a 25-year retrospective. <i>Journal of Biological Rhythms</i> , 1998 , 13, 100-12	3.2	377

41	Reproductive safety of melatonin: a "wonder drug" to wonder about. <i>Journal of Biological Rhythms</i> , 1997 , 12, 682-9	3.2	33
40	Molecular dissection of two distinct actions of melatonin on the suprachiasmatic circadian clock. <i>Neuron</i> , 1997 , 19, 91-102	13.9	593
39	Two period homologs: circadian expression and photic regulation in the suprachiasmatic nuclei. <i>Neuron</i> , 1997 , 19, 1261-9	13.9	654
38	Forward genetic approach strikes gold: cloning of a mammalian clock gene. <i>Cell</i> , 1997 , 89, 487-90	56.2	46
37	Cellular construction of a circadian clock: period determination in the suprachiasmatic nuclei. <i>Cell</i> , 1997 , 91, 855-60	56.2	409
36	Haloperidol regulates neurotensin gene expression in striatum of c-fos-deficient mice. <i>Molecular Brain Research</i> , 1997 , 47, 275-85		6
35	[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
34	Widespread expression of functional D1-dopamine receptors in fetal rat brain. <i>Developmental Brain Research</i> , 1997 , 102, 105-15		31
33	Melatonin receptors step into the light: cloning and classification of subtypes. <i>Trends in Pharmacological Sciences</i> , 1996 , 17, 100-2	13.2	343
32	Cloning of a melatonin-related receptor from human pituitary. <i>FEBS Letters</i> , 1996 , 386, 219-24	3.8	118
31	The Mel1a melatonin receptor gene is expressed in human suprachiasmatic nuclei. <i>NeuroReport</i> , 1996 , 8, 109-12	1.7	106
30	A1-adenosine receptor gene expression in fetal rat brain. <i>Developmental Brain Research</i> , 1996 , 94, 205-223		43
29	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
28	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
27	Melatonin madness. <i>Cell</i> , 1995 , 83, 1059-62	56.2	170
26	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
25	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
24	Cloning and characterization of a mammalian melatonin receptor that mediates reproductive and circadian responses. <i>Neuron</i> , 1994 , 13, 1177-85	13.9	911

23	A2a adenosine receptor gene expression in developing rat brain. <i>Molecular Brain Research</i> , 1993 , 20, 313-27		123
22	Serotonin receptor gene expression in the rat suprachiasmatic nuclei. <i>Brain Research</i> , 1993 , 608, 159-65	3.7	74
21	Maternal Entrainment of a Fetal Biological Clock 1993 , 93-104		
20	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
19	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
18	Circadian and developmental regulation of Oct-2 gene expression in the suprachiasmatic nuclei. <i>Brain Research</i> , 1992 , 598, 332-6	3.7	10
17	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
16	Melatonin receptors and signal transduction during development in Siberian hamsters (<i>Phodopus sungorus</i>). <i>Developmental Brain Research</i> , 1991 , 59, 83-8		42
15	High-Affinity Melatonin Receptors in Mammals: Localization, G-Protein Coupling and Signal Transduction 1991 , 85-95		2
14	The distribution of melatonin binding sites in neuroendocrine tissues of the ewe. <i>Biology of Reproduction</i> , 1990 , 43, 986-93	3.9	97
13	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
12	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
11	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
10	Melatonin receptors in chick brain: characterization and localization. <i>Endocrinology</i> , 1989 , 125, 363-8	4.8	138
9	Direct in utero perception of light by the mammalian fetus. <i>Developmental Brain Research</i> , 1989 , 47, 151-5		28
8	Periodic feeding of SCN-lesioned pregnant rats entrains the fetal biological clock. <i>Developmental Brain Research</i> , 1989 , 46, 291-6		62
7	Iodinated melatonin mimics melatonin action and reveals discrete binding sites in fetal brain. <i>FEBS Letters</i> , 1988 , 228, 123-7	3.8	110
6	The Influence of Light on the Mammalian Fetus. <i>Proceedings in Life Sciences</i> , 1988 , 149-177		2

5	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
4	Nicotinic cholinergic influences on sexual receptivity in female rats. <i>Pharmacology Biochemistry and Behavior</i> , 1987 , 26, 393-400	3.9	9
3	Penetration of light into the uterus of pregnant animals. <i>Photochemistry and Photobiology</i> , 1987 , 45, 637-41	3.6	44
2	Maternal melatonin communicates daylength to the fetus in Djungarian hamsters. <i>Endocrinology</i> , 1986 , 119, 2861-3	4.8	92
1	Cell-type specific circadian bioluminescence rhythms in Dbp reporter mice		2