

# Joseph S Takahashi

## List of Publications by Year in descending order

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309  
papers

64,135  
citations

1172

111  
h-index

877

243  
g-index

328  
all docs

328  
docs citations

328  
times ranked

28935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Obesity and Metabolic Syndrome in Circadian Clock Mutant Mice. <i>Science</i> , 2005, 308, 1043-1045.	12.6	2,181
2	Coordinated Transcription of Key Pathways in the Mouse by the Circadian Clock. <i>Cell</i> , 2002, 109, 307-320.	28.9	2,099
3	PERIOD2::LUCIFERASE real-time reporting of circadian dynamics reveals persistent circadian oscillations in mouse peripheral tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5339-5346.	7.1	2,032
4	Role of the CLOCK Protein in the Mammalian Circadian Mechanism. <i>Science</i> , 1998, 280, 1564-1569.	12.6	1,769
5	Transcriptional architecture of the mammalian circadian clock. <i>Nature Reviews Genetics</i> , 2017, 18, 164-179.	16.3	1,766
6	Central and Peripheral Circadian Clocks in Mammals. <i>Annual Review of Neuroscience</i> , 2012, 35, 445-462.	10.7	1,741
7	Circadian Integration of Metabolism and Energetics. <i>Science</i> , 2010, 330, 1349-1354.	12.6	1,596
8	Mutagenesis and mapping of a mouse gene, Clock, essential for circadian behavior. <i>Science</i> , 1994, 264, 719-725.	12.6	1,507
9	Molecular components of the mammalian circadian clock. <i>Human Molecular Genetics</i> , 2006, 15, R271-R277.	2.9	1,384
10	Mop3 Is an Essential Component of the Master Circadian Pacemaker in Mammals. <i>Cell</i> , 2000, 103, 1009-1017.	28.9	1,380
11	The genetics of mammalian circadian order and disorder: implications for physiology and disease. <i>Nature Reviews Genetics</i> , 2008, 9, 764-775.	16.3	1,357
12	Positional Cloning of the Mouse Circadian Gene. <i>Cell</i> , 1997, 89, 641-653.	28.9	1,298
13	Disruption of the clock components CLOCK and BMAL1 leads to hypoinsulinaemia and diabetes. <i>Nature</i> , 2010, 466, 627-631.	27.8	1,261
14	Transcriptional Architecture and Chromatin Landscape of the Core Circadian Clock in Mammals. <i>Science</i> , 2012, 338, 349-354.	12.6	1,194
15	Molecular architecture of the mammalian circadian clock. <i>Trends in Cell Biology</i> , 2014, 24, 90-99.	7.9	1,084
16	Suprachiasmatic Nucleus: Cell Autonomy and Network Properties. <i>Annual Review of Physiology</i> , 2010, 72, 551-577.	18.1	1,056
17	Circadian Clock Feedback Cycle Through NAMPT-Mediated NAD <sup>+</sup> Biosynthesis. <i>Science</i> , 2009, 324, 651-654.	12.6	992
18	The Meter of Metabolism. <i>Cell</i> , 2008, 134, 728-742.	28.9	873

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19	MAMMALIAN CIRCADIAN BIOLOGY: Elucidating Genome-Wide Levels of Temporal Organization. Annual Review of Genomics and Human Genetics, 2004, 5, 407-441.	6.2	830
20	Regulation of CREB phosphorylation in the suprachiasmatic nucleus by light and a circadian clock. Science, 1993, 260, 238-241.	12.6	801
21	Positional Syntenic Cloning and Functional Characterization of the Mammalian Circadian Mutation tau. Science, 2000, 288, 483-491.	12.6	800
22	Closing the Circadian Loop: CLOCK-Induced Transcription of Its Own Inhibitors per and tim. Science, 1998, 280, 1599-1603.	12.6	784
23	Temperature as a Universal Resetting Cue for Mammalian Circadian Oscillators. Science, 2010, 330, 379-385.	12.6	745
24	Mania-like behavior induced by disruption of <i>CLOCK</i> . Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6406-6411.	7.1	720
25	Intercellular Coupling Confers Robustness against Mutations in the SCN Circadian Clock Network. Cell, 2007, 129, 605-616.	28.9	676
26	Functional Identification of the Mouse Circadian Clock Gene by Transgenic BAC Rescue. Cell, 1997, 89, 655-667.	28.9	642
27	Regulation of circadian behaviour and metabolism by synthetic REV-ERB agonists. Nature, 2012, 485, 62-68.	27.8	638
28	Differential regulation of mammalian Period genes and circadian rhythmicity by cryptochromes 1 and 2. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12114-12119.	7.1	637
29	Bioluminescence Imaging of Individual Fibroblasts Reveals Persistent, Independently Phased Circadian Rhythms of Clock Gene Expression. Current Biology, 2004, 14, 2289-2295.	3.9	614
30	System-Driven and Oscillator-Dependent Circadian Transcription in Mice with a Conditionally Active Liver Clock. PLoS Biology, 2007, 5, e34.	5.6	584
31	Molecular Components of the Mammalian Circadian Clock. Handbook of Experimental Pharmacology, 2013, , 3-27.	1.8	544
32	A CLOCK Polymorphism Associated with Human Diurnal Preference. Sleep, 1998, 21, 569-576.	1.1	540
33	Spectral sensitivity of a novel photoreceptive system mediating entrainment of mammalian circadian rhythms. Nature, 1984, 308, 186-188.	27.8	516
34	Molecular Genetics of Circadian Rhythms in Mammals. Annual Review of Neuroscience, 2000, 23, 713-742.	10.7	503
35	Photic and circadian regulation of c-fos gene expression in the hamster suprachiasmatic nucleus. Neuron, 1990, 5, 127-134.	8.1	500
36	Circadian Mutant Overtime Reveals F-box Protein FBXL3 Regulation of Cryptochrome and Period Gene Expression. Cell, 2007, 129, 1011-1023.	28.9	487

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37	Genetics of Circadian Rhythms in Mammalian Model Organisms. <i>Advances in Genetics</i> , 2011, 74, 175-230.	1.8	468
38	Regulation of dopaminergic transmission and cocaine reward by the <i>Clock</i> gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9377-9381.	7.1	453
39	Circadian and CLOCK-controlled regulation of the mouse transcriptome and cell proliferation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3342-3347.	7.1	439
40	FGF21 regulates metabolism and circadian behavior by acting on the nervous system. <i>Nature Medicine</i> , 2013, 19, 1147-1152.	30.7	430
41	cAMP-Dependent Signaling as a Core Component of the Mammalian Circadian Pacemaker. <i>Science</i> , 2008, 320, 949-953.	12.6	381
42	Role of Mouse Cryptochrome Blue-Light Photoreceptor in Circadian Photoresponses. , 1998, 282, 1490-1494.		380
43	The Small Molecule Nobiletin Targets the Molecular Oscillator to Enhance Circadian Rhythms and Protect against Metabolic Syndrome. <i>Cell Metabolism</i> , 2016, 23, 610-621.	16.2	380
44	The Circadian <i>Clock</i> Mutation Alters Sleep Homeostasis in the Mouse. <i>Journal of Neuroscience</i> , 2000, 20, 8138-8143.	3.6	355
45	T <sub>H</sub> 17 Cell Differentiation Is Regulated by the Circadian Clock. <i>Science</i> , 2013, 342, 727-730.	12.6	355
46	Clock controls circadian period in isolated suprachiasmatic nucleus neurons. <i>Nature Neuroscience</i> , 1998, 1, 708-713.	14.8	347
47	Setting Clock Speed in Mammals: The CK1 $\epsilon$ tau Mutation in Mice Accelerates Circadian Pacemakers by Selectively Destabilizing PERIOD Proteins. <i>Neuron</i> , 2008, 58, 78-88.	8.1	342
48	Mammalian Circadian Autoregulatory Loop. <i>Neuron</i> , 1998, 21, 1101-1113.	8.1	333
49	Circadian Clock Mutation Disrupts Estrous Cyclicity and Maintenance of Pregnancy. <i>Current Biology</i> , 2004, 14, 1367-1373.	3.9	302
50	Identification of the circadian transcriptome in adult mouse skeletal muscle. <i>Physiological Genomics</i> , 2007, 31, 86-95.	2.3	300
51	CLOCK and BMAL1 regulate <i>MyoD</i> and are necessary for maintenance of skeletal muscle phenotype and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19090-19095.	7.1	299
52	Genomics of circadian rhythms in health and disease. <i>Genome Medicine</i> , 2019, 11, 82.	8.2	296
53	Sensitivity and integration in a visual pathway for circadian entrainment in the hamster ( <i>Mesocricetus auratus</i> ).. <i>Journal of Physiology</i> , 1991, 439, 115-145.	2.9	290
54	Regulation of circadian rhythmicity. <i>Science</i> , 1982, 217, 1104-1111.	12.6	288

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55	Stopping Time: The Genetics of Fly and Mouse Circadian Clocks. <i>Annual Review of Neuroscience</i> , 2001, 24, 1091-1119.	10.7	287
56	Competing E3 Ubiquitin Ligases Govern Circadian Periodicity by Degradation of CRY in Nucleus and Cytoplasm. <i>Cell</i> , 2013, 152, 1091-1105.	28.9	280
57	Dissecting the Functions of the Mammalian Clock Protein BMAL1 by Tissue-Specific Rescue in Mice. <i>Science</i> , 2006, 314, 1304-1308.	12.6	274
58	A noncanonical E-box enhancer drives mouse <i>Period2</i> circadian oscillations in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2608-2613.	7.1	272
59	Crystal Structure of the Heterodimeric CLOCK:BMAL1 Transcriptional Activator Complex. <i>Science</i> , 2012, 337, 189-194.	12.6	270
60	Genetics of the Mammalian Circadian System: Photic Entrainment, Circadian Pacemaker Mechanisms, and Posttranslational Regulation. <i>Annual Review of Genetics</i> , 2000, 34, 533-562.	7.6	268
61	Forward-genetics analysis of sleep in randomly mutagenized mice. <i>Nature</i> , 2016, 539, 378-383.	27.8	266
62	Circadian Rhythm Generation and Entrainment in Astrocytes. <i>Journal of Neuroscience</i> , 2005, 25, 404-408.	3.6	248
63	Medicine in the Fourth Dimension. <i>Cell Metabolism</i> , 2019, 30, 238-250.	16.2	245
64	Circadian clock genes and the transcriptional architecture of the clock mechanism. <i>Journal of Molecular Endocrinology</i> , 2019, 63, R93-R102.	2.5	243
65	CKI $\mu$ / $\delta$ -dependent phosphorylation is a temperature-insensitive, period-determining process in the mammalian circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15744-15749.	7.1	239
66	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , 2017, 32, 380-393.	2.6	237
67	Forward and Reverse Genetic Approaches to Behavior in the Mouse. <i>Science</i> , 1994, 264, 1724-1733.	12.6	231
68	From The Cover: Circadian sensitivity to the chemotherapeutic agent cyclophosphamide depends on the functional status of the CLOCK/BMAL1 transactivation complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3407-3412.	7.1	231
69	Circadian rhythms of melatonin release from individual superfused chicken pineal glands in vitro.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980, 77, 2319-2322.	7.1	226
70	BK calcium-activated potassium channels regulate circadian behavioral rhythms and pacemaker output. <i>Nature Neuroscience</i> , 2006, 9, 1041-1049.	14.8	225
71	Regulation of jun-B messenger RNA and AP-1 activity by light and a circadian clock. <i>Science</i> , 1992, 255, 1581-1584.	12.6	213
72	Genome-Wide Epistatic Interaction Analysis Reveals Complex Genetic Determinants of Circadian Behavior in Mice. <i>Genome Research</i> , 2001, 11, 959-980.	5.5	211

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73	Brain and muscle Arnt-like protein-1 (BMAL1) controls circadian cell proliferation and susceptibility to UVB-induced DNA damage in the epidermis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11758-11763.	7.1	211
74	The mouse Clock mutation reduces circadian pacemaker amplitude and enhances efficacy of resetting stimuli and phase-response curve amplitude. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9327-9332.	7.1	209
75	Use of 2-[125I]iodomelatonin to characterize melatonin binding sites in chicken retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1987, 84, 3916-3920.	7.1	208
76	Rhythmic PER Abundance Defines a Critical Nodal Point for Negative Feedback within the Circadian Clock Mechanism. <i>Molecular Cell</i> , 2009, 36, 417-430.	9.7	207
77	Time- and exercise-dependent gene regulation in human skeletal muscle. <i>Genome Biology</i> , 2003, 4, R61.	9.6	204
78	Targeted Deletion of the Vgf Gene Indicates that the Encoded Secretory Peptide Precursor Plays a Novel Role in the Regulation of Energy Balance. <i>Neuron</i> , 1999, 23, 537-548.	8.1	201
79	C57BL/6N Mutation in <i>Cytoplasmic FMRP interacting protein 2</i> Regulates Cocaine Response. <i>Science</i> , 2013, 342, 1508-1512.	12.6	198
80	Cell autonomy and synchrony of suprachiasmatic nucleus circadian oscillators. <i>Trends in Neurosciences</i> , 2011, 34, 349-358.	8.6	195
81	Identification of diverse modulators of central and peripheral circadian clocks by high-throughput chemical screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 101-106.	7.1	195
82	The Genomic Landscape and Pharmacogenomic Interactions of Clock Genes in Cancer Chronotherapy. <i>Cell Systems</i> , 2018, 6, 314-328.e2.	6.2	183
83	Mice under Caloric Restriction Self-Impose a Temporal Restriction of Food Intake as Revealed by an Automated Feeder System. <i>Cell Metabolism</i> , 2017, 26, 267-277.e2.	16.2	176
84	Emergence of Noise-Induced Oscillations in the Central Circadian Pacemaker. <i>PLoS Biology</i> , 2010, 8, e1000513.	5.6	172
85	Magnetic sensitivity of cryptochrome 4 from a migratory songbird. <i>Nature</i> , 2021, 594, 535-540.	27.8	171
86	Molecular components of the circadian clock in mammals. <i>Diabetes, Obesity and Metabolism</i> , 2015, 17, 6-11.	4.4	170
87	Circadian regulation of iodopsin gene expression in embryonic photoreceptors in retinal cell culture. <i>Neuron</i> , 1993, 10, 579-584.	8.1	169
88	Real-Time Luminescence Reporting of Circadian Gene Expression in Mammals. <i>Methods in Enzymology</i> , 2005, 393, 288-301.	1.0	167
89	Pineal opsin: a nonvisual opsin expressed in chick pineal. <i>Science</i> , 1995, 267, 1502-1506.	12.6	159
90	Effects of aging on the circadian rhythm of wheel-running activity in C57BL/6 mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1997, 273, R1957-R1964.	1.8	158

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91	Circadian alignment of early onset caloric restriction promotes longevity in male C57BL/6J mice. <i>Science</i> , 2022, 376, 1192-1202.	12.6	157
92	The Mouse <i>Clock</i> Mutation Behaves as an Antimorph and Maps Within the <i>W19H</i> Deletion, Distal of <i>Kit</i> . <i>Genetics</i> , 1997, 146, 1049-1060.	2.9	156
93	Neuromedin S-Producing Neurons Act as Essential Pacemakers in the Suprachiasmatic Nucleus to Couple Clock Neurons and Dictate Circadian Rhythms. <i>Neuron</i> , 2015, 85, 1086-1102.	8.1	148
94	Circadian Clock Genes Contribute to the Regulation of Hair Follicle Cycling. <i>PLoS Genetics</i> , 2009, 5, e1000573.	3.5	146
95	Aging Alters Circadian and Light-Induced Expression of Clock Genes in Golden Hamsters. <i>Journal of Biological Rhythms</i> , 2003, 18, 159-169.	2.6	143
96	Circadian clock in cell culture: I. Oscillation of melatonin release from dissociated chick pineal cells in flow-through microcarrier culture. <i>Journal of Neuroscience</i> , 1988, 8, 12-21.	3.6	141
97	Light, immediate-early genes, and circadian rhythms. <i>Behavior Genetics</i> , 1996, 26, 221-240.	2.1	140
98	Differential effects of light and feeding on circadian organization of peripheral clocks in a forebrain <i>Bmal1</i> mutant. <i>ELife</i> , 2014, 3, .	6.0	140
99	The Physiology of Circadian Pacemakers. <i>Annual Review of Physiology</i> , 1978, 40, 501-526.	13.1	139
100	Role of the suprachiasmatic nuclei in the circadian system of the house sparrow, <i>Passer domesticus</i> . <i>Journal of Neuroscience</i> , 1982, 2, 815-828.	3.6	138
101	The orphan receptor <i>Rev-erb1<math>\beta</math></i> gene is a target of the circadian clock pacemaker. <i>Journal of Molecular Endocrinology</i> , 2004, 33, 585-608.	2.5	138
102	Familial Advanced Sleep Phase Syndrome. <i>Archives of Neurology</i> , 2001, 58, 1089.	4.5	137
103	2-[ <sup>125</sup> I]iodomelatonin Binding Sites in Hamster Brain Membranes: Pharmacological Characteristics and Regional Distribution*. <i>Endocrinology</i> , 1988, 122, 1825-1833.	2.8	136
104	Chimera Analysis of the Clock Mutation in Mice Shows that Complex Cellular Integration Determines Circadian Behavior. <i>Cell</i> , 2001, 105, 25-42.	28.9	135
105	Photic and circadian expression of luciferase in <i>mPeriod1-luc</i> transgenic mice in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 489-494.	7.1	135
106	The Circadian Clock in Skin. <i>Journal of Biological Rhythms</i> , 2015, 30, 163-182.	2.6	135
107	Effects of aging on light-induced phase-shifting of circadian behavioral rhythms, Fos expression and creb phosphorylation in the hamster suprachiasmatic nucleus. <i>Neuroscience</i> , 1996, 70, 951-961.	2.3	132
108	Characteristics and Autoradiographic Localization of 2-[ <sup>125</sup> I]iodomelatonin Binding Sites in Djungarian Hamster Brain*. <i>Endocrinology</i> , 1989, 125, 1011-1018.	2.8	129

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109	Sex- and lineage-specific inheritance of depression-like behavior in the rat. <i>Mammalian Genome</i> , 2004, 15, 648-662.	2.2	129
110	Functional Annotation of Mouse Genome Sequences. <i>Science</i> , 2001, 291, 1251-1255.	12.6	125
111	Nobiletin fortifies mitochondrial respiration in skeletal muscle to promote healthy aging against metabolic challenge. <i>Nature Communications</i> , 2019, 10, 3923.	12.8	123
112	The Avian Pineal, a Vertebrate Model System of the Circadian Oscillator: Cellular Regulation of Circadian Rhythms by Light, Second Messengers, and Macromolecular Synthesis. , 1989, 45, 279-352.		121
113	Development and Therapeutic Potential of Small-Molecule Modulators of Circadian Systems. <i>Annual Review of Pharmacology and Toxicology</i> , 2018, 58, 231-252.	9.4	119
114	InÂVivo Single-Cell Detection of Metabolic Oscillations in Stem Cells. <i>Cell Reports</i> , 2015, 10, 1-7.	6.4	118
115	Future of genetics of mood disorders research. <i>Biological Psychiatry</i> , 2002, 52, 457-477.	1.3	116
116	Molecular Cloning and Characterization of the HumanCLOCKGene: Expression in the Suprachiasmatic Nuclei. <i>Genomics</i> , 1999, 57, 189-200.	2.9	115
117	Finding New Clock Components: Past and Future. <i>Journal of Biological Rhythms</i> , 2004, 19, 339-347.	2.6	114
118	Bmal1 function in skeletal muscle regulates sleep. <i>ELife</i> , 2017, 6, .	6.0	106
119	Importance of circadian timing for aging and longevity. <i>Nature Communications</i> , 2021, 12, 2862.	12.8	106
120	Circadian clock in cell culture: II. In vitro photic entrainment of melatonin oscillation from dissociated chick pineal cells. <i>Journal of Neuroscience</i> , 1988, 8, 22-30.	3.6	105
121	The Basic Helix-Loop-Helix-PAS Protein MOP9 Is a Brain-Specific Heterodimeric Partner of Circadian and Hypoxia Factors. <i>Journal of Neuroscience</i> , 2000, 20, RC83-RC83.	3.6	104
122	Tissue-specific BMAL1 cistromes reveal that rhythmic transcription is associated with rhythmic enhancerâ€“enhancer interactions. <i>Genes and Development</i> , 2019, 33, 294-309.	5.9	103
123	Vasopressin Regulation of the Proestrous Luteinizing Hormone Surge in Wild-Type and Clock Mutant Mice1. <i>Biology of Reproduction</i> , 2006, 75, 778-784.	2.7	101
124	Cell-Autonomous Regulation of Astrocyte Activation by the Circadian Clock Protein BMAL1. <i>Cell Reports</i> , 2018, 25, 1-9.e5.	6.4	100
125	Temperature compensation and temperature entrainment of the chick pineal cell circadian clock. <i>Journal of Neuroscience</i> , 1995, 15, 5681-5692.	3.6	99
126	Why the neuroendocrine system is important in aging processes. <i>Experimental Gerontology</i> , 1987, 22, 1-15.	2.8	98



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127	Brain-Specific Rescue of Clock Reveals System-Driven Transcriptional Rhythms in Peripheral Tissue. PLoS Genetics, 2012, 8, e1002835.	3.5	97
128	The microbiota coordinates diurnal rhythms in innate immunity with the circadian clock. Cell, 2021, 184, 4154-4167.e12.	28.9	97
129	Small molecule modifiers of circadian clocks. Cellular and Molecular Life Sciences, 2013, 70, 2985-2998.	5.4	95
130	Central Circadian Control of Female Reproductive Function. Frontiers in Endocrinology, 2013, 4, 195.	3.5	93
131	Formation of a repressive complex in the mammalian circadian clock is mediated by the secondary pocket of CRY1. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1560-1565.	7.1	92
132	Transcriptional Basis for Rhythmic Control of Hunger and Metabolism within the AgRP Neuron. Cell Metabolism, 2019, 29, 1078-1091.e5.	16.2	91
133	Chemical and structural analysis of a photoactive vertebrate cryptochrome from pigeon. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19449-19457.	7.1	91
134	Gene Set Enrichment in eQTL Data Identifies Novel Annotations and Pathway Regulators. PLoS Genetics, 2008, 4, e1000070.	3.5	90
135	Molecular assembly of the period-cryptochrome circadian transcriptional repressor complex. ELife, 2014, 3, e03674.	6.0	90
136	Light-induced decrease of serotonin N-acetyltransferase activity and melatonin in the chicken pineal gland and retina. Brain Research, 1983, 266, 287-293.	2.2	89
137	Circadian-clock regulation of gene expression. Current Opinion in Genetics and Development, 1993, 3, 301-309.	3.3	89
138	Utilization of a whole genome SNP panel for efficient genetic mapping in the mouse. Genome Research, 2006, 16, 436-440.	5.5	89
139	Searching for Genes Underlying Behavior: Lessons from Circadian Rhythms. Science, 2008, 322, 909-912.	12.6	89
140	Genetics and Neurobiology of Circadian Clocks in Mammals. Cold Spring Harbor Symposia on Quantitative Biology, 2007, 72, 251-259.	1.1	88
141	HDAC5 and Its Target Gene, Npas4, Function in the Nucleus Accumbens to Regulate Cocaine-Conditioned Behaviors. Neuron, 2017, 96, 130-144.e6.	8.1	88
142	Comparison of visual sensitivity for suppression of pineal melatonin and circadian phase-shifting in the golden hamster. Brain Research, 1991, 554, 272-277.	2.2	85
143	Adenylate cyclase activation shifts the phase of a circadian pacemaker. Science, 1983, 220, 82-84.	12.6	84
144	Phosphorylation of LSD1 by PKC $\zeta$ Is Crucial for Circadian Rhythmicity and Phase Resetting. Molecular Cell, 2014, 53, 791-805.	9.7	84

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145	Circadian clock genes are ticking. <i>Science</i> , 1992, 258, 238-240.	12.6	81
146	Implementing Large-Scale ENU Mutagenesis Screens in North America. <i>Genetica</i> , 2004, 122, 51-64.	1.1	81
147	Circadian rhythms: molecular basis of the clock. <i>Current Opinion in Genetics and Development</i> , 1998, 8, 595-602.	3.3	79
148	Time-Restricted Feeding Shifts the Skin Circadian Clock and Alters UVB-Induced DNA Damage. <i>Cell Reports</i> , 2017, 20, 1061-1072.	6.4	79
149	Large-scale mutagenesis of the mouse to understand the genetic bases of nervous system structure and function. <i>Molecular Brain Research</i> , 2004, 132, 105-115.	2.3	77
150	Genetic contributions to circadian activity rhythm and sleep pattern phenotypes in pedigrees segregating for severe bipolar disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E754-61.	7.1	77
151	Lithium Ameliorates Nucleus Accumbens Phase-Signaling Dysfunction in a Genetic Mouse Model of Mania. <i>Journal of Neuroscience</i> , 2010, 30, 16314-16323.	3.6	76
152	Hepatocyte circadian clock controls acetaminophen bioactivation through NADPH-cytochrome P450 oxidoreductase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18757-18762.	7.1	75
153	Sleeping sickness is a circadian disorder. <i>Nature Communications</i> , 2018, 9, 62.	12.8	75
154	Automated Measurement of Mouse Freezing Behavior and its Use for Quantitative Trait Locus Analysis of Contextual Fear Conditioning in (BALB/c) × (C57BL/6)F <sub>2</sub> Mice. <i>Learning and Memory</i> , 1998, 5, 391-403.	1.3	75
155	An evolutionary hotspot defines functional differences between CRYPTOCHROMES. <i>Nature Communications</i> , 2018, 9, 1138.	12.8	72
156	Multiple redundant circadian oscillators within the isolated avian pineal gland. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1984, 154, 435-440.	1.6	71
157	Period2 3' UTR and microRNA-24 regulate circadian rhythms by repressing PERIOD2 protein accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8855-E8864.	7.1	71
158	Circadian Clock Genes as Modulators of Sensitivity to Genotoxic Stress. <i>Cell Cycle</i> , 2005, 4, 901-907.	2.6	68
159	Genomewide Association Analysis in Diverse Inbred Mice: Power and Population Structure. <i>Genetics</i> , 2007, 176, 675-683.	2.9	68
160	Trypanosoma brucei metabolism is under circadian control. <i>Nature Microbiology</i> , 2017, 2, 17032.	13.3	68
161	Anisomycin, an inhibitor of protein synthesis, perturbs the phase of a mammalian circadian pacemaker. <i>Brain Research</i> , 1987, 405, 199-203.	2.2	66
162	Phosphorylation of the Cryptochrome 1 C-terminal Tail Regulates Circadian Period Length. <i>Journal of Biological Chemistry</i> , 2013, 288, 35277-35286.	3.4	66

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