Joseph S Takahashi

List of Publications by Year in Descending Order

297 papers	52,294 citations	105 h-index	227 g-index
326 ext. papers	58,949 ext. citations	14 avg, IF	7.84 L-index

#	Paper	IF	Citations
297	Circadian alignment of early onset caloric restriction promotes longevity in male C57BL/6J mice.. *Science*, **2022**, 376, e	33.3	11
296	Circadian alignment of feeding regulates lifespan extension by caloric restriction. *Innovation in Aging*, **2021**, 5, 116-116	0.1	
295	Introduction to the Clock System. *Advances in Experimental Medicine and Biology*, **2021**, 1344, 3-20	3.6	0
294	Michael Menaker (1934-2021). *Journal of Biological Rhythms*, **2021**, 36, 495-498	3.2	
293	Synchronization between peripheral circadian clock and feeding-fasting cycles in microfluidic device sustains oscillatory pattern of transcriptome. *Nature Communications*, **2021**, 12, 6185	17.4	3
292	Importance of circadian timing for aging and longevity. *Nature Communications*, **2021**, 12, 2862	17.4	25
291	Natural antisense transcript of regulates the amplitude of the mouse circadian clock. *Genes and Development*, **2021**, 35, 899-913	12.6	3
290	Magnetic sensitivity of cryptochrome 4 from a migratory songbird. *Nature*, **2021**, 594, 535-540	50.4	44
289	Adverse impact of polyphasic sleep patterns in humans: Report of the National Sleep Foundation sleep timing and variability consensus panel. *Sleep Health*, **2021**, 7, 293-302	4	2
288	Genetic analysis of activity, brain and behavioral associations in extended families with heavy genetic loading for bipolar disorder. *Psychological Medicine*, **2021**, 51, 494-502	6.9	1
287	NPAS4 regulates the transcriptional response of the suprachiasmatic nucleus to light and circadian behavior. *Neuron*, **2021**, 109, 3268-3282.e6	13.9	8
286	The microbiota coordinates diurnal rhythms in innate immunity with the circadian clock. *Cell*, **2021**, 184, 4154-4167.e12	56.2	24
285	The 50th anniversary of the Konopka and Benzer 1971 paper in PNAS: "Clock Mutants of ". *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	1
284	Chemical perturbations reveal that RUVBL2 regulates the circadian phase in mammals. *Science Translational Medicine*, **2020**, 12,	17.5	9
283	Noise-driven cellular heterogeneity in circadian periodicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10350-10356	11.5	15
282	The malaria parasite has an intrinsic clock. *Science*, **2020**, 368, 746-753	33.3	37
281	Circadian control of interferon-sensitive gene expression in murine skin. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 5761-5771	11.5	19

280	Epigenetic inheritance of circadian period in clonal cells. *ELife*, **2020**, 9,	8.9	8
279	An essential role for MEF2C in the cortical response to loss of sleep in mice. *ELife*, **2020**, 9,	8.9	11
278	Dual-Color Single-Cell Imaging of the Suprachiasmatic Nucleus Reveals a Circadian Role in Network Synchrony. *Neuron*, **2020**, 108, 164-179.e7	13.9	26
277	Sleeping Sickness Disrupts the Sleep-Regulating Adenosine System. *Journal of Neuroscience*, **2020**, 40, 9306-9316	6.6	1
276	Sleeping Sickness: A Tale of Two Clocks. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 525097	5.9	5
275	Neuronal Myocyte-Specific Enhancer Factor 2D (MEF2D) Is Required for Normal Circadian and Sleep Behavior in Mice. *Journal of Neuroscience*, **2019**, 39, 7958-7967	6.6	7
274	Nobiletin fortifies mitochondrial respiration in skeletal muscle to promote healthy aging against metabolic challenge. *Nature Communications*, **2019**, 10, 3923	17.4	62
273	A Hyperkinetic Redox Sensor Drives Flies to Sleep. *Trends in Neurosciences*, **2019**, 42, 514-517	13.3	1
272	A novel mutation in Slc2a4 as a mouse model of fatigue. *Genes, Brain and Behavior*, **2019**, 18, e12578	3.6	
271	A novel mouse model overexpressing Nocturnin results in decreased fat mass in male mice. *Journal of Cellular Physiology*, **2019**, 234, 20228-20239	7	7
270	Medicine in the Fourth Dimension. *Cell Metabolism*, **2019**, 30, 238-250	24.6	125
269	Circadian clock genes and the transcriptional architecture of the clock mechanism. *Journal of Molecular Endocrinology*, **2019**, 63, R93-R102	4.5	100
268	Tissue-specific BMAL1 cistromes reveal that rhythmic transcription is associated with rhythmic enhancer-enhancer interactions. *Genes and Development*, **2019**, 33, 294-309	12.6	63
267	Transcriptional Basis for Rhythmic Control of Hunger and Metabolism within the AgRP Neuron. *Cell Metabolism*, **2019**, 29, 1078-1091.e5	24.6	53
266	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	11.5	45
265	Tissue-specific FAH deficiency alters sleep-wake patterns and results in chronic tyrosinemia in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22229-22236	11.5	2
264	Genomics of circadian rhythms in health and disease. *Genome Medicine*, **2019**, 11, 82	14.4	130
263	Sleeping sickness is a circadian disorder. *Nature Communications*, **2018**, 9, 62	17.4	47

262	The Genomic Landscape and Pharmacogenomic Interactions of Clock Genes in Cancer Chronotherapy. *Cell Systems*, **2018**, 6, 314-328.e2	10.6	85
261	An evolutionary hotspot defines functional differences between CRYPTOCHROMES. *Nature Communications*, **2018**, 9, 1138	17.4	43
260	Development and Therapeutic Potential of Small-Molecule Modulators of Circadian Systems. *Annual Review of Pharmacology and Toxicology*, **2018**, 58, 231-252	17.9	85
259	Mean-Variance QTL Mapping Identifies Novel QTL for Circadian Activity and Exploratory Behavior in Mice. *G3: Genes, Genomes, Genetics*, **2018**, 8, 3783-3790	3.2	8
258	Cell-Autonomous Regulation of Astrocyte Activation by the Circadian Clock Protein BMAL1. *Cell Reports*, **2018**, 25, 1-9.e5	10.6	54
257	Enriching the Circadian Proteome. *Cell Metabolism*, **2017**, 25, 1-2	24.6	25
256	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	11.5	56
255	Trypanosoma brucei metabolism is under circadian control. *Nature Microbiology*, **2017**, 2, 17032	26.6	57
254	Transcriptional architecture of the mammalian circadian clock. *Nature Reviews Genetics*, **2017**, 18, 164-179	30.1	989
253	3PUTR and microRNA-24 regulate circadian rhythms by repressing PERIOD2 protein accumulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E8855-E8864	11.5	55
252	HCFC2 is needed for IRF1- and IRF2-dependent transcription and for survival during viral infections. *Journal of Experimental Medicine*, **2017**, 214, 3263-3277	16.6	19
251	HDAC5 and Its Target Gene, Npas4, Function in the Nucleus Accumbens to Regulate Cocaine-Conditioned Behaviors. *Neuron*, **2017**, 96, 130-144.e6	13.9	61
250	Time-Restricted Feeding Shifts the Skin Circadian Clock and Alters UVB-Induced DNA Damage. *Cell Reports*, **2017**, 20, 1061-1072	10.6	53
249	Novel transcriptional networks regulated by CLOCK in human neurons. *Genes and Development*, **2017**, 31, 2121-2135	12.6	19
248	Guidelines for Genome-Scale Analysis of Biological Rhythms. *Journal of Biological Rhythms*, **2017**, 32, 380-393	3.2	127
247	Mice under Caloric Restriction Self-Impose a Temporal Restriction of Food Intake as Revealed by an Automated Feeder System. *Cell Metabolism*, **2017**, 26, 267-277.e2	24.6	107
246	An actigraphy study investigating sleep in bipolar I patients, unaffected siblings and controls. *Journal of Affective Disorders*, **2017**, 208, 248-254	6.6	10
245	function in skeletal muscle regulates sleep. *ELife*, **2017**, 6,	8.9	66

244	Circadian rhythms in parasites. *PLoS Pathogens*, **2017**, 13, e1006590	7.6	17
243	Identification of mutations through dominant screening for obesity using C57BL/6 substrains. *Scientific Reports*, **2016**, 6, 32453	4.9	5
242	Forward-genetics analysis of sleep in randomly mutagenized mice. *Nature*, **2016**, 539, 378-383	50.4	152
241	Genetic contributions to circadian activity rhythm and sleep pattern phenotypes in pedigrees segregating for severe bipolar disorder. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E754-61	11.5	58
240	Mouse mutation reveals a mechanism involving mitochondrial dynamics that leads to age-dependent retinal pathologies. *ELife*, **2016**, 5,	8.9	32
239	Loss of ZBTB20 impairs circadian output and leads to unimodal behavioral rhythms. *ELife*, **2016**, 5,	8.9	13
238	The Small Molecule Nobiletin Targets the Molecular Oscillator to Enhance Circadian Rhythms and Protect against Metabolic Syndrome. *Cell Metabolism*, **2016**, 23, 610-21	24.6	251
237	Molecular Architecture of the Circadian Clock in Mammals. *Research and Perspectives in Endocrine Interactions*, **2016**, 13-24		27
236	Circadian Oscillations of NADH Redox State Using a Heterologous Metabolic Sensor in Mammalian Cells. *Journal of Biological Chemistry*, **2016**, 291, 23906-23914	5.4	7
235	Neuromedin s-producing neurons act as essential pacemakers in the suprachiasmatic nucleus to couple clock neurons and dictate circadian rhythms. *Neuron*, **2015**, 85, 1086-102	13.9	108
234	Vasoactive intestinal polypeptide (VIP)-expressing neurons in the suprachiasmatic nucleus provide sparse GABAergic outputs to local neurons with circadian regulation occurring distal to the opening of postsynaptic GABAA ionotropic receptors. *Journal of Neuroscience*, **2015**, 35, 1905-20	6.6	37
233	A tunable artificial circadian clock in clock-defective mice. *Nature Communications*, **2015**, 6, 8587	17.4	30
232	Molecular components of the circadian clock in mammals. *Diabetes, Obesity and Metabolism*, **2015**, 17 Suppl 1, 6-11	6.7	130
231	Cycling Transcriptional Networks Optimize Energy Utilization on a Genome Scale. *Cell Reports*, **2015** , 13, 1868-80	10.6	36
230	In vivo single-cell detection of metabolic oscillations in stem cells. *Cell Reports*, **2015**, 10, 1-7	10.6	96
229	ChIP-seq and RNA-seq methods to study circadian control of transcription in mammals. *Methods in Enzymology*, **2015**, 551, 285-321	1.7	22
228	The circadian clock in skin: implications for adult stem cells, tissue regeneration, cancer, aging, and immunity. *Journal of Biological Rhythms*, **2015**, 30, 163-82	3.2	94
227	Phosphorylation of LSD1 by PKC□is crucial for circadian rhythmicity and phase resetting. *Molecular Cell*, **2014**, 53, 791-805	17.6	71

226	Molecular assembly of the period-cryptochrome circadian transcriptional repressor complex. *ELife*, **2014**, 3, e03674	8.9	65
225	Hepatocyte circadian clock controls acetaminophen bioactivation through NADPH-cytochrome P450 oxidoreductase. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 18757-62	11.5	55
224	Transcriptional program of Kpna2/Importin-2 regulates cellular differentiation-coupled circadian clock development in mammalian cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E5039-48	11.5	47
223	Molecular architecture of the mammalian circadian clock. *Trends in Cell Biology*, **2014**, 24, 90-9	18.3	788
222	Differential effects of light and feeding on circadian organization of peripheral clocks in a forebrain Bmal1 mutant. *ELife*, **2014**, 3,	8.9	105
221	Small molecule modifiers of circadian clocks. *Cellular and Molecular Life Sciences*, **2013**, 70, 2985-98	10.3	82
220	FGF21 regulates metabolism and circadian behavior by acting on the nervous system. *Nature Medicine*, **2013**, 19, 1147-52	50.5	333
219	TH17 cell differentiation is regulated by the circadian clock. *Science*, **2013**, 342, 727-30	33.3	255
218	C57BL/6N mutation in cytoplasmic FMRP interacting protein 2 regulates cocaine response. *Science*, **2013**, 342, 1508-12	33.3	133
217	Epidermal stem cells ride the circadian wave. *Genome Biology*, **2013**, 14, 140	18.3	6
216	Phosphorylation of the cryptochrome 1 C-terminal tail regulates circadian period length. *Journal of Biological Chemistry*, **2013**, 288, 35277-86	5.4	49
215	Competing E3 ubiquitin ligases govern circadian periodicity by degradation of CRY in nucleus and cytoplasm. *Cell*, **2013**, 152, 1091-105	56.2	224
214	Central circadian control of female reproductive function. *Frontiers in Endocrinology*, **2013**, 4, 195	5.7	72
213	Molecular components of the Mammalian circadian clock. *Handbook of Experimental Pharmacology*, **2013**, 3-27	3.2	428
212	Usf1, a suppressor of the circadian Clock mutant, reveals the nature of the DNA-binding of the CLOCK:BMAL1 complex in mice. *ELife*, **2013**, 2, e00426	8.9	47
211	Ghrelin-immunopositive hypothalamic neurons tie the circadian clock and visual system to the lateral hypothalamic arousal center. *Molecular Metabolism*, **2012**, 1, 79-85	8.8	15
210	Regulation of circadian behaviour and metabolism by synthetic REV-ERB agonists. *Nature*, **2012**, 485, 62-8	50.4	493
209	Transcriptional architecture and chromatin landscape of the core circadian clock in mammals. *Science*, **2012**, 338, 349-54	33.3	931

208	Crystal structure of the heterodimeric CLOCK:BMAL1 transcriptional activator complex. *Science*, **2012**, 337, 189-94	33.3	198
207	Central and peripheral circadian clocks in mammals. *Annual Review of Neuroscience*, **2012**, 35, 445-62	17	1319
206	Brain-specific rescue of Clock reveals system-driven transcriptional rhythms in peripheral tissue. *PLoS Genetics*, **2012**, 8, e1002835	6	81
205	Identification of diverse modulators of central and peripheral circadian clocks by high-throughput chemical screening. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 101-6	11.5	162
204	Brain and muscle Arnt-like protein-1 (BMAL1) controls circadian cell proliferation and susceptibility to UVB-induced DNA damage in the epidermis. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11758-63	11.5	165
203	Genetics of circadian rhythms in Mammalian model organisms. *Advances in Genetics*, **2011**, 74, 175-230	3.3	384
202	Cell autonomy and synchrony of suprachiasmatic nucleus circadian oscillators. *Trends in Neurosciences*, **2011**, 34, 349-58	13.3	175
201	Second-generation high-throughput forward genetic screen in mice to isolate subtle behavioral mutants. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108 Suppl 3, 15557-64	11.5	19
200	Impaired limbic gamma oscillatory synchrony during anxiety-related behavior in a genetic mouse model of bipolar mania. *Journal of Neuroscience*, **2011**, 31, 6449-56	6.6	34
199	Phase-Resetting Sensitivity of the Suprachiasmatic Nucleus and Oscillator Amplitude: Reply to Letter by Ruby. *Journal of Biological Rhythms*, **2011**, 26, 371-373	3.2	1
198	Generation of N-ethyl-N-nitrosourea (ENU) diabetes models in mice demonstrates genotype-specific action of glucokinase activators. *Journal of Biological Chemistry*, **2011**, 286, 39560-72	5.4	12
197	Disruption of the clock components CLOCK and BMAL1 leads to hypoinsulinaemia and diabetes. *Nature*, **2010**, 466, 627-31	50.4	1019
196	Lithium ameliorates nucleus accumbens phase-signaling dysfunction in a genetic mouse model of mania. *Journal of Neuroscience*, **2010**, 30, 16314-23	6.6	60
195	CLOCK and BMAL1 regulate MyoD and are necessary for maintenance of skeletal muscle phenotype and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19090-5	11.5	234
194	Emergence of noise-induced oscillations in the central circadian pacemaker. *PLoS Biology*, **2010**, 8, e1000513	5.7	150
193	Divergent and nonuniform gene expression patterns in mouse brain. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19049-54	11.5	24
192	Temperature as a universal resetting cue for mammalian circadian oscillators. *Science*, **2010**, 330, 379-85	33.3	591
191	Circadian integration of metabolism and energetics. *Science*, **2010**, 330, 1349-54	33.3	1253

190	PARP around the clock. *Cell*, **2010**, 142, 841-3	56.2	10
189	Suprachiasmatic nucleus: cell autonomy and network properties. *Annual Review of Physiology*, **2010**, 72, 551-77	23.1	840
188	Genetic suppression of the circadian Clock mutation by the melatonin biosynthesis pathway. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 8399-403	11.5	43
187	CKIepsilon/delta-dependent phosphorylation is a temperature-insensitive, period-determining process in the mammalian circadian clock. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 15744-9	11.5	199
186	Identification of genetic loci involved in diabetes using a rat model of depression. *Mammalian Genome*, **2009**, 20, 486-97	3.2	9
185	Circadian clock feedback cycle through NAMPT-mediated NAD+ biosynthesis. *Science*, **2009**, 324, 651-4	33.3	846
184	Rhythmic PER abundance defines a critical nodal point for negative feedback within the circadian clock mechanism. *Molecular Cell*, **2009**, 36, 417-30	17.6	160
183	Circadian clock genes contribute to the regulation of hair follicle cycling. *PLoS Genetics*, **2009**, 5, e1000563		117
182	The genetics of mammalian circadian order and disorder: implications for physiology and disease. *Nature Reviews Genetics*, **2008**, 9, 764-75	30.1	1141
181	Setting clock speed in mammals: the CK1 epsilon tau mutation in mice accelerates circadian pacemakers by selectively destabilizing PERIOD proteins. *Neuron*, **2008**, 58, 78-88	13.9	301
180	The meter of metabolism. *Cell*, **2008**, 134, 728-42	56.2	718
179	cAMP-dependent signaling as a core component of the mammalian circadian pacemaker. *Science*, **2008**, 320, 949-53	33.3	328
178	Searching for genes underlying behavior: lessons from circadian rhythms. *Science*, **2008**, 322, 909-12	33.3	77
177	Gene set enrichment in eQTL data identifies novel annotations and pathway regulators. *PLoS Genetics*, **2008**, 4, e1000070	6	79
176	Circadian Transcriptional Output in the SCN and Liver of the Mouse. *Novartis Foundation Symposium* , **2008**, 171-183		25
175	Genetics and neurobiology of circadian clocks in mammals. *Cold Spring Harbor Symposia on Quantitative Biology*, **2007**, 72, 251-259	3.9	70
174	Interpretation of the mouse electroretinogram. *Documenta Ophthalmologica*, **2007**, 115, 127-36	2.2	44
173	Circadian and CLOCK-controlled regulation of the mouse transcriptome and cell proliferation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 3342-7	11.5	389

172	System-driven and oscillator-dependent circadian transcription in mice with a conditionally active liver clock. *PLoS Biology*, **2007**, 5, e34	9.7	508
171	Inducible and reversible Clock gene expression in brain using the tTA system for the study of circadian behavior. *PLoS Genetics*, **2007**, 3, e33	6	47
170	Generation, identification and functional characterization of the nob4 mutation of Grm6 in the mouse. *Visual Neuroscience*, **2007**, 24, 111-23	1.7	53
169	Identification of the circadian transcriptome in adult mouse skeletal muscle. *Physiological Genomics*, **2007**, 31, 86-95	3.6	254
168	Genomewide association analysis in diverse inbred mice: power and population structure. *Genetics*, **2007**, 176, 675-83	4	66
167	A circadian sleep disorder reveals a complex clock. *Cell*, **2007**, 128, 22-3	56.2	21
166	Intercellular coupling confers robustness against mutations in the SCN circadian clock network. *Cell* , **2007**, 129, 605-16	56.2	584
165	Circadian mutant Overtime reveals F-box protein FBXL3 regulation of cryptochrome and period gene expression. *Cell*, **2007**, 129, 1011-23	56.2	420
164	Mania-like behavior induced by disruption of CLOCK. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 6406-11	11.5	619
163	Utilization of a whole genome SNP panel for efficient genetic mapping in the mouse. *Genome Research*, **2006**, 16, 436-40	9.7	85
162	Dissecting the functions of the mammalian clock protein BMAL1 by tissue-specific rescue in mice. *Science*, **2006**, 314, 1304-8	33.3	237
161	Molecular components of the mammalian circadian clock. *Human Molecular Genetics*, **2006**, 15 Spec No 2, R271-7	5.6	1142
160	Vasopressin regulation of the proestrous luteinizing hormone surge in wild-type and Clock mutant mice. *Biology of Reproduction*, **2006**, 75, 778-84	3.9	93
159	The mouse Clock mutation reduces circadian pacemaker amplitude and enhances efficacy of resetting stimuli and phase-response curve amplitude. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 9327-32	11.5	185
158	Xenobiotic metabolism in the fourth dimension: PARtners in time. *Cell Metabolism*, **2006**, 4, 3-4	24.6	8
157	Test- and behavior-specific genetic factors affect WKY hypoactivity in tests of emotionality. *Behavioural Brain Research*, **2006**, 169, 220-30	3.4	37
156	Large-scale mutagenesis and phenotypic screens for the nervous system and behavior in mice. *Trends in Neurosciences*, **2006**, 29, 233-40	13.3	42
155	Genetic analysis of the stress-responsive adrenocortical axis. *Physiological Genomics*, **2006**, 27, 362-9	3.6	38

154	BK calcium-activated potassium channels regulate circadian behavioral rhythms and pacemaker output. *Nature Neuroscience*, **2006**, 9, 1041-9	25.5	194
153	Circadian clock genes as modulators of sensitivity to genotoxic stress. *Cell Cycle*, **2005**, 4, 901-7	4.7	60
152	Obesity and metabolic syndrome in circadian Clock mutant mice. *Science*, **2005**, 308, 1043-5	33.3	1846
151	Methods to record circadian rhythm wheel running activity in mice. *Methods in Enzymology*, **2005**, 393, 230-9	1.7	49
150	A noncanonical E-box enhancer drives mouse Period2 circadian oscillations in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 2608-13	11.5	242
149	Real-time luminescence reporting of circadian gene expression in mammals. *Methods in Enzymology* , **2005**, 393, 288-301	1.7	146
148	Lineage is an epigenetic modifier of QTL influencing behavioral coping with stress. *Behavior Genetics*, **2005**, 35, 189-98	3.2	17
147	Forward genetic screens to identify circadian rhythm mutants in mice. *Methods in Enzymology*, **2005** , 393, 219-29	1.7	20
146	Mouse chimeras and their application to circadian biology. *Methods in Enzymology*, **2005**, 393, 478-92	1.7	2
145	Quantitative trait loci associated with elevated thyroid-stimulating hormone in the Wistar-Kyoto rat. *Endocrinology*, **2005**, 146, 870-8	4.8	14
144	Regulation of dopaminergic transmission and cocaine reward by the Clock gene. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 9377-81	11.5	393
143	Loss of circadian photoentrainment and abnormal retinal electrophysiology in Math5 mutant mice. *Investigative Ophthalmology and Visual Science*, **2005**, 46, 2540-51		51
142	Circadian sensitivity to the chemotherapeutic agent cyclophosphamide depends on the functional status of the CLOCK/BMAL1 transactivation complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 3407-12	11.5	201
141	Circadian rhythm generation and entrainment in astrocytes. *Journal of Neuroscience*, **2005**, 25, 404-8	6.6	188
140	Generation, characterization, and molecular cloning of the Noerg-1 mutation of rhodopsin in the mouse. *Visual Neuroscience*, **2005**, 22, 619-29	1.7	19
139	The orphan receptor Rev-erbalpha gene is a target of the circadian clock pacemaker. *Journal of Molecular Endocrinology*, **2004**, 33, 585-608	4.5	127
138	The gene for soluble N-ethylmaleimide sensitive factor attachment protein alpha is mutated in hydrocephaly with hop gait (hyh) mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 1748-53	11.5	54
137	Finding new clock components: past and future. *Journal of Biological Rhythms*, **2004**, 19, 339-47	3.2	98

136	Biography of Joseph S. Takahashi. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5336-8	11.5	1
135	A genome end-game: understanding gene function in the nervous system. *Nature Neuroscience*, **2004**, 7, 484-5	25.5	8
134	Circadian clock mutation disrupts estrous cyclicity and maintenance of pregnancy. *Current Biology*, **2004**, 14, 1367-73	6.3	263
133	Bioluminescence imaging of individual fibroblasts reveals persistent, independently phased circadian rhythms of clock gene expression. *Current Biology*, **2004**, 14, 2289-95	6.3	544
132	Implementing large-scale ENU mutagenesis screens in North America. *Genetica*, **2004**, 122, 51-64	1.5	73
131	Sex- and lineage-specific inheritance of depression-like behavior in the rat. *Mammalian Genome*, **2004**, 15, 648-62	3.2	107
130	PERIOD2::LUCIFERASE real-time reporting of circadian dynamics reveals persistent circadian oscillations in mouse peripheral tissues. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 5339-46	11.5	1722
129	Maternal behavior modulates X-linked inheritance of behavioral coping in the defensive burying test. *Biological Psychiatry*, **2004**, 55, 1069-74	7.9	15
128	Results from screening over 9000 mutation-bearing mice for defects in the electroretinogram and appearance of the fundus. *Vision Research*, **2004**, 44, 3335-45	2.1	21
127	Large-scale mutagenesis of the mouse to understand the genetic bases of nervous system structure and function. *Molecular Brain Research*, **2004**, 132, 105-15		61
126	Effects of age on circadian rhythms are similar in wild-type and heterozygous Clock mutant mice. *Neurobiology of Aging*, **2004**, 25, 517-23	5.6	43
125	Mammalian circadian biology: elucidating genome-wide levels of temporal organization. *Annual Review of Genomics and Human Genetics*, **2004**, 5, 407-41	9.7	732
124	X-linked and lineage-dependent inheritance of coping responses to stress. *Mammalian Genome*, **2003**, 14, 748-57	3.2	29
123	Depressive-like behavior and stress reactivity are independent traits in a Wistar Kyoto x Fisher 344 cross. *Molecular Psychiatry*, **2003**, 8, 423-33	15.1	42
122	Time- and exercise-dependent gene regulation in human skeletal muscle. *Genome Biology*, **2003**, 4, R61	18.3	156
121	Aging alters circadian and light-induced expression of clock genes in golden hamsters. *Journal of Biological Rhythms*, **2003**, 18, 159-69	3.2	127
120	Photic and circadian expression of luciferase in mPeriod1-luc transgenic mice invivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 489-94	11.5	126
119	Future of genetics of mood disorders research. *Biological Psychiatry*, **2002**, 52, 457-77	7.9	108

118	Coordinated transcription of key pathways in the mouse by the circadian clock. *Cell*, **2002**, 109, 307-20	56.2	1831
117	Measurement of hypocretin/orexin content in the mouse brain using an enzyme immunoassay: the effect of circadian time, age and genetic background. *Peptides*, **2002**, 23, 2203-11	3.8	46
116	Familial advanced sleep phase syndrome. *Archives of Neurology*, **2001**, 58, 1089-94		114
115	Effect of circadian phase on context and cued fear conditioning in C57BL/6J mice. *Learning and Behavior*, **2001**, 29, 133-142		47
114	Genome-wide epistatic interaction analysis reveals complex genetic determinants of circadian behavior in mice. *Genome Research*, **2001**, 11, 959-80	9.7	189
113	Introduction to Circadian Rhythms. *Handbook of Behavioral Neurobiology*, **2001**, 3-6		4
112	Chimera analysis of the Clock mutation in mice shows that complex cellular integration determines circadian behavior. *Cell*, **2001**, 105, 25-42	56.2	128
111	Stopping time: the genetics of fly and mouse circadian clocks. *Annual Review of Neuroscience*, **2001**, 24, 1091-119	17	257
110	Sequence interpretation. Functional annotation of mouse genome sequences. *Science*, **2001**, 291, 1251-5	33.3	101
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