

# CITATION REPORT

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Setting clock speed in mammals: the CK1 epsilon tau mutation in mice accelerates circadian pacemakers by selectively destabilizing PERIOD proteins

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328	Energy-responsive timekeeping. <b>2008</b> , 87, 447-58		34
327	Circadian and pharmacological regulation of casein kinase I in the hamster suprachiasmatic nucleus. <b>2008</b> , 87, 467-71		8
326	Phenotypic effects of genetic variability in human clock genes on circadian and sleep parameters. <b>2008</b> , 87, 513-9		64
325	The genetics of mammalian circadian order and disorder: implications for physiology and disease. <b>2008</b> , 9, 764-75		1141
324	Two decades of circadian time. <b>2008</b> , 20, 812-9		101
323	Cellular circadian pacemaking and the role of cytosolic rhythms. <b>2008</b> , 18, R805-R815		120
322	New insights into ancient seasonal life timers. <b>2008</b> , 18, R795-R804		99
321	Searching for genes underlying behavior: lessons from circadian rhythms. <b>2008</b> , 322, 909-12		77
320	PERspective on PER phosphorylation. <b>2008</b> , 22, 1737-40		18
319	The phospho-occupancy of an atypical SLIMB-binding site on PERIOD that is phosphorylated by DOUBLETIME controls the pace of the clock. <b>2008</b> , 22, 1758-72		115
318	Light phase testing of social behaviors: not a problem. <b>2008</b> , 2, 186-91		29
317	Network features of the mammalian circadian clock. <b>2009</b> , 7, e52		195
316	Circadian rhythm dysregulation in the elderly: advanced sleep phase syndrome. 131-142		
315	Intrinsic, nondeterministic circadian rhythm generation in identified mammalian neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 16493-8	11.5	202
314	Casein kinase-1-epsilon (CK1epsilon) and circadian photic responses in hamsters. <b>2009</b> , 26, 126-33		29
313	Selective inhibition of casein kinase 1 epsilon minimally alters circadian clock period. <b>2009</b> , 330, 430-9		139
312	A large-scale functional RNAi screen reveals a role for CK2 in the mammalian circadian clock. <b>2009</b> , 23, 708-18		154

311	The methamphetamine-sensitive circadian oscillator does not employ canonical clock genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3519-24	11.5	63
310	Essential roles of CKdelta and CKepsilon in the mammalian circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21359-64	11.5	135
309	CKepsilon/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> , <b>2009</b> , 106, 15744-9	11.5	199
308	Casein kinase 1 delta regulates the pace of the mammalian circadian clock. <b>2009</b> , 29, 3853-66		156
307	Endogenous rhythms in Period1 mutant suprachiasmatic nuclei in vitro do not represent circadian behavior. <b>2009</b> , 29, 14681-6		29
306	Ribosomal s6 kinase cooperates with casein kinase 2 to modulate the Drosophila circadian molecular oscillator. <b>2009</b> , 29, 466-75		23
305	Drosophila and vertebrate casein kinase Idelta exhibits evolutionary conservation of circadian function. <b>2009</b> , 181, 139-52		25
304	Post-translational modifications in circadian rhythms. <b>2009</b> , 34, 483-90		148
303	Introduction of tau mutation into cultured Rat1-R12 cells by gene targeting, using recombinant adeno-associated virus vector. <b>2009</b> , 29, 699-705		1
302	A role for casein kinase 1 epsilon in the locomotor stimulant response to methamphetamine. <b>2009</b> , 203, 703-11		38
301	Inhibition of casein kinase I epsilon/delta produces phase shifts in the circadian rhythms of Cynomolgus monkeys. <b>2009</b> , 204, 735-42		23
300	Metabolism and cancer: the circadian clock connection. <b>2009</b> , 9, 886-96		393
299	Adipose tissue, adipocytes and the circadian timing system. <b>2009</b> , 10 Suppl 2, 52-60		25
298	Temperature-insensitive reaction in the mammalian circadian clock. <b>2009</b> , 7, 243-251		
297	High-throughput screening and chemical biology: new approaches for understanding circadian clock mechanisms. <b>2009</b> , 16, 921-7		35
296	Circadian clocks and phosphorylation: Insights from computational modeling. <b>2009</b> , 4, 290-303		6
295	A genome-wide RNAi screen for modifiers of the circadian clock in human cells. <b>2009</b> , 139, 199-210		359
294	Circadian rhythms and chemical carcinogenesis: Potential link. An overview. <b>2009</b> , 680, 83-6		2

293	The role of PPARs in modulating cardiac metabolism in diabetes. <b>2009</b> , 60, 185-94		7
292	The crosstalk between physiology and circadian clock proteins. <b>2009</b> , 26, 1479-513		174
291	The role of clock genes in pharmacology. <b>2010</b> , 50, 187-214		72
290	Analysis of cell type-specific expression of CK1 epsilon in various tissues of young adult BALB/c Mice and in mammary tumors of SV40 T-Ag-transgenic mice. <b>2010</b> , 58, 1-15		20
289	Entrainment of disrupted circadian behavior through inhibition of casein kinase 1 (CK1) enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 15240-5	11.5	181
288	Emergence of noise-induced oscillations in the central circadian pacemaker. <b>2010</b> , 8, e1000513		150
287	High-throughput chemical screen identifies a novel potent modulator of cellular circadian rhythms and reveals CK1 $\alpha$ as a clock regulatory kinase. <b>2010</b> , 8, e1000559		171
286	Systems biology of mammalian circadian clocks. <b>2010</b> , 72, 579-603		154
285	Self-sustained circadian rhythm in cultured human mononuclear cells isolated from peripheral blood. <b>2010</b> , 66, 223-7		12
284	Circadian dysfunction in disease. <b>2010</b> , 31, 191-8		143
283	Physiology of circadian entrainment. <b>2010</b> , 90, 1063-102		661
282	Circadian clocks in mood-related behaviors. <b>2010</b> , 42, 241-51		25
281	Genetics of circadian rhythms in Mammalian model organisms. <b>2011</b> , 74, 175-230		384
280	Cardiac Dysfunction and Metabolism: Unravelling the Molecular Cross-Talk. <b>2011</b> , 109-125		
279	NEMO/NLK phosphorylates PERIOD to initiate a time-delay phosphorylation circuit that sets circadian clock speed. <b>2011</b> , 145, 357-70		141
278	Crosstalk between components of circadian and metabolic cycles in mammals. <b>2011</b> , 13, 125-37		438
277	The role of circadian timing system on drug metabolism and detoxification. <b>2011</b> , 7, 147-58		71
276	Glucocorticoids and circadian clock control of cell proliferation: at the interface between three dynamic systems. <b>2011</b> , 331, 11-22		44

275	Cell autonomy and synchrony of suprachiasmatic nucleus circadian oscillators. <b>2011</b> , 34, 349-58	175
274	Circadian rhythms in urinary functions: possible roles of circadian clocks?. <b>2011</b> , 15, 64-73	32
273	Serine-Threonine Protein Kinases CK1, CK2 and GSK3 in Normal and Malignant Haematopoiesis. <b>2011</b> , 6, 88-98	3
272	AHR and the Circadian Clock. <b>2011</b> , 511-522	1
271	Perinatal photoperiod imprints the circadian clock. <b>2011</b> , 14, 25-7	112
270	IC261 induces cell cycle arrest and apoptosis of human cancer cells via CK1 $\beta$ and Wnt/ $\beta$ -catenin independent inhibition of mitotic spindle formation. <b>2011</b> , 30, 2558-69	88
269	Modelling the dual role of Per phosphorylation and its effect on the period and phase of the mammalian circadian clock. <b>2011</b> , 5, 44	25
268	The daily rhythm of mice. <b>2011</b> , 585, 1384-92	57
267	Kinases and phosphatases in the mammalian circadian clock. <b>2011</b> , 585, 1393-9	127
266	Duper: a mutation that shortens hamster circadian period. <i>Journal of Biological Rhythms</i> , <b>2011</b> , 26, 283-92	13
265	Animal clocks: a multitude of molecular mechanisms for circadian timekeeping. <b>2011</b> , 2, 312-20	21
264	Protein kinases CK1 and CK2 as new targets for neurodegenerative diseases. <b>2011</b> , 31, 924-54	98
263	A Small Molecule Modulates Circadian Rhythms through Phosphorylation of the Period Protein. <b>2011</b> , 123, 10796-10799	1
262	A small molecule modulates circadian rhythms through phosphorylation of the period protein. <b>2011</b> , 50, 10608-11	44
261	Heme-binding characteristics of the isolated PAS-B domain of mouse Per2, a transcriptional regulatory factor associated with circadian rhythms. <b>2011</b> , 1814, 326-33	20
260	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> , <b>2011</b> , 108, 16451-6	11.5 138
259	A diversity of paracrine signals sustains molecular circadian cycling in suprachiasmatic nucleus circuits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 14306-11	11.5 210
258	Tuning the period of the mammalian circadian clock: additive and independent effects of CK1 $\beta$ and Fbxl3Afh mutations on mouse circadian behavior and molecular pacemaking. <b>2011</b> , 31, 1539-44	41

257	Circadian metabolic regulation through crosstalk between casein kinase 1 $\beta$ and transcriptional coactivator PGC-1 $\beta$ . <b>2011</b> , 25, 2084-93		18
256	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> , <b>2011</b> , 108, 17219-24	11.5	43
255	Casein kinase 1-dependent phosphorylation of familial advanced sleep phase syndrome-associated residues controls PERIOD 2 stability. <b>2011</b> , 286, 12766-74		56
254	Effects of the duper mutation on circadian responses to light. <i>Journal of Biological Rhythms</i> , <b>2011</b> , 26, 293-304	3.2	6
253	A circadian clock in HaCaT keratinocytes. <b>2011</b> , 131, 338-48		63
252	Lithium differentially affects clock gene expression in serum-shocked NIH-3T3 cells. <b>2011</b> , 25, 924-33		41
251	Csnk1e is a genetic regulator of sensitivity to psychostimulants and opioids. <b>2012</b> , 37, 1026-35		49
250	Generation of mouse mutants as tools in dissecting the molecular clock. <b>2012</b> , 199, 247-265		0
249	Inhibition of the casein-kinase-1 $\beta$ prevents relapse-like alcohol drinking. <b>2012</b> , 37, 2121-31		50
248	Functional genomics identifies therapeutic targets for MYC-driven cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 9545-50	11.5	175
247	Enriched rearing improves behavioral responses of an animal model for CNV-based autistic-like traits. <b>2012</b> , 21, 3083-96		44
246	Assessment of circadian rhythms in humans: comparison of real-time fibroblast reporter imaging with plasma melatonin. <b>2012</b> , 26, 2414-23		53
245	Physiology. Circadian time redoxed. <b>2012</b> , 337, 805-6		5
244	Chronic stress affects PERIOD2 expression through glycogen synthase kinase-3 $\beta$ phosphorylation in the central clock. <b>2012</b> , 23, 98-102		39
243	Tissue-specific interaction of Per1/2 and Dec2 in the regulation of fibroblast circadian rhythms. <i>Journal of Biological Rhythms</i> , <b>2012</b> , 27, 478-89	3.2	8
242	A design principle for a posttranslational biochemical oscillator. <b>2012</b> , 2, 938-50		49
241	Biological Rhythms of the Mouse. <b>2012</b> , 383-407		
240	Genetic insights on sleep schedules: this time, it's PERSONal. <b>2012</b> , 28, 598-605		25

239	Speed control: cogs and gears that drive the circadian clock. <b>2012</b> , 35, 574-85	59
238	Lithium impacts on the amplitude and period of the molecular circadian clockwork. <b>2012</b> , 7, e33292	112
237	Antibodies for assessing circadian clock proteins in the rodent suprachiasmatic nucleus. <b>2012</b> , 7, e35938	20
236	Does the precision of a biological clock depend upon its period? Effects of the duper and tau mutations in Syrian hamsters. <b>2012</b> , 7, e36119	10
235	Circadian regulation of food-anticipatory activity in molecular clock-deficient mice. <b>2012</b> , 7, e48892	31
234	Circadian rhythm disruption in cancer biology. <b>2012</b> , 18, 1249-60	195
233	De novo synthesis of PERIOD initiates circadian oscillation in cultured mouse suprachiasmatic nucleus after prolonged inhibition of protein synthesis by cycloheximide. <b>2012</b> , 35, 291-9	7
232	Adipose circadian rhythms: translating cellular and animal studies to human physiology. <b>2012</b> , 349, 45-50	24
231	Circadian nature of immune function. <b>2012</b> , 349, 82-90	117
230	Small molecule modifiers of circadian clocks. <b>2013</b> , 70, 2985-98	82
229	Diversity of human clock genotypes and consequences. <b>2013</b> , 119, 51-81	36
228	The times they're a-changing: effects of circadian desynchronization on physiology and disease. <b>2013</b> , 107, 310-22	91
227	Analysis of the molecular pathophysiology of sleep disorders relevant to a disturbed biological clock. <b>2013</b> , 288, 185-93	9
226	AMP-activated protein kinase as a key molecular link between metabolism and clockwork. <b>2013</b> , 45, e33	56
225	Hypothalamic clocks and rhythms in feeding behaviour. <b>2013</b> , 36, 74-82	94
224	Functional analysis of the rodent CK1tau mutation in the circadian clock of a marine unicellular alga. <b>2013</b> , 14, 46	6
223	miRNAs are required for generating a time delay critical for the circadian oscillator. <b>2013</b> , 23, 1959-68	86
222	AMPK at the crossroads of circadian clocks and metabolism. <b>2013</b> , 366, 163-9	93

221	The Role of the Circadian System in Homeostasis. <b>2013</b> , 407-426		2
220	Competing E3 ubiquitin ligases govern circadian periodicity by degradation of CRY in nucleus and cytoplasm. <b>2013</b> , 152, 1091-105		224
219	Cellular mechanisms of circadian pacemaking: beyond transcriptional loops. <b>2013</b> , 67-103		46
218	Connecting cellular metabolism to circadian clocks. <b>2013</b> , 23, 234-41		48
217	Analysis of core circadian feedback loop in suprachiasmatic nucleus of mCry1-luc transgenic reporter mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 9547-52	11.5	43
216	Suppressed cellular oscillations in after-hours mutant mice are associated with enhanced circadian phase-resetting. <b>2013</b> , 591, 1063-80		20
215	In vivo monitoring of multi-unit neural activity in the suprachiasmatic nucleus reveals robust circadian rhythms in <i>Period1</i> mice. <b>2013</b> , 8, e64333		3
214	Genetics of sleep and EEG. 139-146		
213	Genetic interaction between circadian and homeostatic regulation of sleep. 147-161		
212	Annual, Lunar, and Tidal Clocks. <b>2014</b> ,		19
211	Casein kinase 1 promotes synchrony of the circadian clock network. <b>2014</b> , 34, 2682-94		10
210	Synthetic lethal screens as a means to understand and treat MYC-driven cancers. <b>2014</b> , 4,		56
209	The Tau mutation of casein kinase 1β sets the period of the mammalian pacemaker via regulation of <i>Period1</i> or <i>Period2</i> clock proteins. <i>Journal of Biological Rhythms</i> , <b>2014</b> , 29, 110-8	3.2	27
208	Circadian pacemaking in cells and circuits of the suprachiasmatic nucleus. <b>2014</b> , 26, 2-10		113
207	Spatiotemporal separation of PER and CRY posttranslational regulation in the mammalian circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2040-5	11.5	40
206	Circadian Rhythm in Stroke □The Influence of Our Internal Cellular Clock on Cerebrovascular Events. <b>2014</b> , 04,		2
205	The E3 ubiquitin ligase UBE3A is an integral component of the molecular circadian clock through regulating the BMAL1 transcription factor. <b>2014</b> , 42, 5765-75		69
204	Relationship between circadian period and body size in the tau-mutant golden hamster. <b>2014</b> , 92, 27-33		1



203	Clocks for all seasons: unwinding the roles and mechanisms of circadian and interval timers in the hypothalamus and pituitary. <b>2014</b> , 222, R39-59	110
202	The CK1 Family: Contribution to Cellular Stress Response and Its Role in Carcinogenesis. <b>2014</b> , 4, 96	146
201	Exercise influences circadian gene expression in equine skeletal muscle. <b>2014</b> , 201, 39-45	20
200	Circadian molecular clocks and cancer. <b>2014</b> , 342, 9-18	167
199	Network-mediated encoding of circadian time: the suprachiasmatic nucleus (SCN) from genes to neurons to circuits, and back. <b>2014</b> , 34, 15192-9	37
198	Retention of a 24-hour time memory in Syrian hamsters carrying the 20-hour short circadian period mutation in casein kinase-1[ck1 $\beta$ au/tau]. <b>2014</b> , 114, 171-7	7
197	Casein kinase: the triple meaning of a misnomer. <b>2014</b> , 460, 141-56	76
196	A novel mechanism controlling resetting speed of the circadian clock to environmental stimuli. <b>2014</b> , 24, 766-73	35
195	PER1 phosphorylation specifies feeding rhythm in mice. <b>2014</b> , 7, 1509-1520	49
194	Circadian rhythms and addiction: mechanistic insights and future directions. <b>2014</b> , 128, 387-412	93
193	The circadian clock gene Csnk1e regulates rapid eye movement sleep amount, and nonrapid eye movement sleep architecture in mice. <b>2014</b> , 37, 785-93, 793A-793C	14
192	Molecular components of the circadian clock in mammals. <b>2015</b> , 17 Suppl 1, 6-11	130
191	Cytosolic and Transcriptional Cycles Underlying Circadian Oscillations. <b>2015</b> , 1-23	
190	The Molecular Circadian Clock and Alcohol-Induced Liver Injury. <b>2015</b> , 5, 2504-37	26
189	Cell-based inhibitor screening identifies multiple protein kinases important for circadian clock oscillations. <b>2015</b> , 8, e982405	14
188	Neurobiology of Circadian Rhythm Regulation. <i>Sleep Medicine Clinics</i> , <b>2015</b> , 10, 403-12	3.6 69
187	A brief history of circadian time: The emergence of redox oscillations as a novel component of biological rhythms. <b>2015</b> , 6, 27-37	15
186	Environmental disruption of circadian rhythm predisposes mice to osteoarthritis-like changes in knee joint. <b>2015</b> , 230, 2174-2183	35

185	Phase resetting in duper hamsters: specificity to photic zeitgebers and circadian phase. <i>Journal of Biological Rhythms</i> , <b>2015</b> , 30, 129-43	3.2	3
184	Casein kinase 1 regulates Sprouty2 in FGF-ERK signaling. <b>2015</b> , 34, 474-84		21
183	Effects of Circadian Disruption on Physiology and Pathology: From Bench to Clinic (and Back). <b>2015</b> , 289-320		
182	Light-regulated translational control of circadian behavior by eIF4E phosphorylation. <b>2015</b> , 18, 855-62		53
181	Clock circadian regulator (CLOCK) gene network expression patterns in bovine adipose, liver, and mammary gland at 3 time points during the transition from pregnancy into lactation. <b>2015</b> , 98, 4601-12		16
180	Cellular clocks in AVP neurons of the SCN are critical for interneuronal coupling regulating circadian behavior rhythm. <i>Neuron</i> , <b>2015</b> , 85, 1103-16	13.9	152
179	A Period2 Phosphoswitch Regulates and Temperature Compensates Circadian Period. <i>Molecular Cell</i> , <b>2015</b> , 60, 77-88	17.6	92
178	Endogenous casein kinase-1 modulates NMDA receptor activity of hypothalamic presympathetic neurons and sympathetic outflow in hypertension. <b>2015</b> , 593, 4439-52		18
177	A Doubletime Nuclear Localization Signal Mediates an Interaction with Bride of Doubletime to Promote Circadian Function. <i>Journal of Biological Rhythms</i> , <b>2015</b> , 30, 302-17	3.2	6
176	Protein Modifications in Pathogenic Dysregulation of Signaling. <b>2015</b> ,		
175	Mechanisms of Circadian Systems in Animals and Their Clinical Relevance. <b>2015</b> ,		5
174	Ageing and osteoarthritis: a circadian rhythm connection. <b>2015</b> , 16, 209-19		34
173	Altered Body Weight Regulation in CK1 $\Delta$ Null and tau Mutant Mice on Regular Chow and High Fat Diets. <b>2016</b> , 2016, 4973242		4
172	Systems genetic and pharmacological analysis identifies candidate genes underlying mechanosensation in the von Frey test. <b>2016</b> , 15, 604-15		7
171	Visualizing and Quantifying Intracellular Behavior and Abundance of the Core Circadian Clock Protein PERIOD2. <b>2016</b> , 26, 1880-6		33
170	The intricate dance of post-translational modifications in the rhythm of life. <b>2016</b> , 23, 1053-1060		105
169	Temporally chimeric mice reveal flexibility of circadian period-setting in the suprachiasmatic nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 3657-62	11.5	45
168	Molecular Architecture of the Circadian Clock in Mammals. <b>2016</b> , 13-24		27

167	Circadian rhythms and metabolism: from the brain to the gut and back again. <b>2016</b> , 1385, 21-40		15
166	Combined Pharmacological and Genetic Manipulations Unlock Unprecedented Temporal Elasticity and Reveal Phase-Specific Modulation of the Molecular Circadian Clock of the Mouse Suprachiasmatic Nucleus. <b>2016</b> , 36, 9326-41		20
165	Circadian Rhythms: Understanding the SCN Connectome. <b>2016</b> , 26, R840-R843		2
164	Protein sequestration versus Hill-type repression in circadian clock models. <b>2016</b> , 10, 125-35		45
163	Early doors (Edo) mutant mouse reveals the importance of period 2 (PER2) PAS domain structure for circadian pacemaking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2756-61	11.5	15
162	Life in a dark biosphere: a review of circadian physiology in "arrhythmic" environments. <b>2016</b> , 186, 947-968		43
161	Interplay between Metabolism and Epigenetics: A Nuclear Adaptation to Environmental Changes. <i>Molecular Cell</i> , <b>2016</b> , 62, 695-711	17.6	243
160	Circadian rhythms and attention deficit hyperactivity disorder: The what, the when and the why. <b>2016</b> , 67, 74-81		41
159	Circadian rhythms of liver physiology and disease: experimental and clinical evidence. <b>2016</b> , 13, 217-26		130
158	Circadian Clocks: Role in Health and Disease. <b>2016</b> ,		5
157	Introduction to Circadian Rhythms and Mechanisms of Circadian Oscillations. <b>2016</b> , 1-55		6
156	The Circadian Clock as a Drug Target. <b>2016</b> , 335-366		
155	Natural selection against a circadian clock gene mutation in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 686-91	11.5	87
154	Effect of Multiple Clock Gene Ablations on the Circadian Period Length and Temperature Compensation in Mammalian Cells. <i>Journal of Biological Rhythms</i> , <b>2016</b> , 31, 48-56	3.2	12
153	The Mammalian Neural Circadian System: From Molecules to Behaviour. <b>2017</b> , 257-275		3
152	No FAD, No CRY: Redox and Circadian Rhythms. <b>2017</b> , 42, 497-499		6
151	Astrocytes Regulate Daily Rhythms in the Suprachiasmatic Nucleus and Behavior. <b>2017</b> , 27, 1055-1061		129
150	Systems Chronotherapeutics. <b>2017</b> , 69, 161-199		165

149	Circadian clock, cell cycle, and breast cancer: an updated review. <b>2017</b> , 48, 353-369		3
148	Regulating the Suprachiasmatic Nucleus (SCN) Circadian Clockwork: Interplay between Cell-Autonomous and Circuit-Level Mechanisms. <b>2017</b> , 9,		113
147	Transcriptional architecture of the mammalian circadian clock. <b>2017</b> , 18, 164-179		989
146	Interval-timing Protocols and Their Relevancy to the Study of Temporal Cognition and Neurobehavioral Genetics. <b>2017</b> , 179-227		5
145	Temperature-Sensitive Substrate and Product Binding Underlie Temperature-Compensated Phosphorylation in the Clock. <i>Molecular Cell</i> , <b>2017</b> , 67, 783-798.e20	17.6	46
144	Misalignment with the external light environment drives metabolic and cardiac dysfunction. <b>2017</b> , 8, 417		83
143	Delayed Cryptochrome Degradation Asymmetrically Alters the Daily Rhythm in Suprachiasmatic Clock Neuron Excitability. <b>2017</b> , 37, 7824-7836		9
142	Molecular modulators of the circadian clock: lessons from flies and mice. <b>2017</b> , 74, 1035-1059		57
141	Physiology of the Mammalian Circadian System. <b>2017</b> , 351-361.e6		
140	Clock Genes and Altered Sleep-Wake Rhythms: Their Role in the Development of Psychiatric Disorders. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	76
139	Desynchrony between brain and peripheral clocks caused by CK1 $\delta$ 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> , <b>2018</b> , 115, E2437-E2446	11.5	25
138	Clocking in to immunity. <b>2018</b> , 18, 423-437		209
137	Neuronal oscillations on an ultra-slow timescale: daily rhythms in electrical activity and gene expression in the mammalian master circadian clockwork. <b>2018</b> , 48, 2696-2717		21
136	Epithelial and stromal circadian clocks are inversely regulated by their mechano-matrix environment. <b>2018</b> , 131,		21
135	Circadian expression and functional characterization of PEA-15 within the mouse suprachiasmatic nucleus. <b>2018</b> , 47, 845-857		2
134	Circadian PER2 protein oscillations do not persist in cycloheximide-treated mouse embryonic fibroblasts in culture. <b>2018</b> , 35, 132-136		1
133	The role of the circadian clock system in physiology. <b>2018</b> , 470, 227-239		63
132	An evolutionary hotspot defines functional differences between CRYPTOCHROMES. <b>2018</b> , 9, 1138		43

131	Mammalian Circadian Period, But Not Phase and Amplitude, Is Robust Against Redox and Metabolic Perturbations. <b>2018</b> , 28, 507-520		38
130	Design Principles of Phosphorylation-Dependent Timekeeping in Eukaryotic Circadian Clocks. <b>2018</b> , 10,		20
129	Coordination of cardiac rhythmic output and circadian metabolic regulation in the heart. <b>2018</b> , 75, 403-416		15
128	Waveforms of molecular oscillations reveal circadian timekeeping mechanisms. <b>2018</b> , 1, 207		5
127	Distinct control of PERIOD2 degradation and circadian rhythms by the oncoprotein and ubiquitin ligase MDM2. <b>2018</b> , 11,		22
126	mTOR Signaling, Translational Control, and the Circadian Clock. <b>2018</b> , 9, 367		27
125	Sleep/Wake Disruption in a Mouse Model of BLOC-1 Deficiency. <b>2018</b> , 12, 759		6
124	Suprachiasmatic function in a circadian period mutant: Duper alters light-induced activation of vasoactive intestinal peptide cells and PERIOD1 immunostaining. <b>2018</b> , 48, 3319-3334		2
123	CK1 $\delta$ protein kinase primes the PER2 circadian phosphoswitch. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5986-5991	11.5	71
122	Generation of circadian rhythms in the suprachiasmatic nucleus. <b>2018</b> , 19, 453-469		287
121	Idiopathic Hypersomnia Patients Revealed Longer Circadian Period Length in Peripheral Skin Fibroblasts. <b>2018</b> , 9, 424		15
120	Zinc Exacerbates Tau Pathology in a Tau Mouse Model. <b>2018</b> , 64, 617-630		23
119	Clocks and meals keep mice from being cool. <b>2018</b> , 221,		7
118	The Circadian Clock and the Aging Process. <b>2018</b> , 1067-1081		
117	Autophagy Regulates the Liver Clock and Glucose Metabolism by Degrading CRY1. <b>2018</b> , 28, 268-281.e4		75
116	Food intake and addictive-like eating behaviors: Time to think about the circadian clock(s). <b>2019</b> , 106, 122-132		10
115	Autokinase Activity of Casein Kinase 1 $\delta$ Governs the Period of Mammalian Circadian Rhythms. <i>Journal of Biological Rhythms</i> , <b>2019</b> , 34, 482-496	3.2	9
114	The NRON complex controls circadian clock function through regulated PER and CRY nuclear translocation. <b>2019</b> , 9, 11883		8

113	Circadian regulation of sleep in a pre-clinical model of Dravet syndrome: dynamics of sleep stage and siesta re-entrainment. <b>2019</b> , 42,		4
112	Limitations of the Avp-IRES2-Cre (JAX #023530) and Vip-IRES-Cre (JAX #010908) Models for Chronobiological Investigations. <i>Journal of Biological Rhythms</i> , <b>2019</b> , 34, 634-644	3.2	12
111	Circadian Function in Multiple Cell Types Is Necessary for Proper Timing of the Preovulatory LH Surge. <i>Journal of Biological Rhythms</i> , <b>2019</b> , 34, 622-633	3.2	9
110	Influence of the extracellular matrix on cell-intrinsic circadian clocks. <b>2019</b> , 132,		13
109	Spatiotemporal chromatin dynamics - A telltale of circadian epigenetic gene regulation. <b>2019</b> , 221, 377-391		3
108	Orobol, an Enzyme-Convertible Product of Genistein, exerts Anti-Obesity Effects by Targeting Casein Kinase 1 Epsilon. <b>2019</b> , 9, 8942		10
107	Lifespan is unaffected by size and direction of daily phase shifts in <i>Nasonia</i> , a hymenopteran insect with strong circadian light resetting. <b>2019</b> , 117, 103896		4
106	Circadian neurogenetics of mood disorders. <b>2019</b> , 377, 81-94		12
105	A Symphony of Signals: Intercellular and Intracellular Signaling Mechanisms Underlying Circadian Timekeeping in Mice and Flies. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
104	Casein Kinase 1 Underlies Temperature Compensation of Circadian Rhythms in Human Red Blood Cells. <i>Journal of Biological Rhythms</i> , <b>2019</b> , 34, 144-153	3.2	13
103	The Mammalian Circadian Timing System and the Suprachiasmatic Nucleus as Its Pacemaker. <i>Biology</i> , <b>2019</b> , 8,	4.9	56
102	The Circadian Mutation in Casein Kinase 1 Is Part of a Larger Domain That Can Be Mutated to Shorten Circadian Period. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	4
101	Longdaysin inhibits Wnt/ $\beta$ -catenin signaling and exhibits antitumor activity against breast cancer. <b>2019</b> , 12, 993-1005		10
100	Circadian Rhythms and Addiction. <b>2019</b> , 189-212		0
99	Spatiotemporal regulation of the Dma1-mediated mitotic checkpoint coordinates mitosis with cytokinesis. <b>2019</b> , 65, 663-668		5
98	Synchronization and maintenance of circadian timing in the mammalian clockwork. <b>2020</b> , 51, 229-240		8
97	Periodicity, repression, and the molecular architecture of the mammalian circadian clock. <b>2020</b> , 51, 139-165		15
96	Transcription-based circadian mechanism controls the duration of molecular clock states in response to signaling inputs. <b>2020</b> , 484, 110015		11

95	Molecular mechanisms and physiological importance of circadian rhythms. <b>2020</b> , 21, 67-84		214
94	microRNA-25 as a novel modulator of circadian Period2 gene oscillation. <b>2020</b> , 52, 1614-1626		7
93	Diversified regulation of circadian clock gene expression following whole genome duplication. <b>2020</b> , 16, e1009097		4
92	Circadian VIPergic Neurons of the Suprachiasmatic Nuclei Sculpt the Sleep-Wake Cycle. <i>Neuron</i> , <b>2020</b> , 108, 486-499.e5	13.9	21
91	Phosphorylation and Circadian Molecular Timing. <b>2020</b> , 11, 612510		9
90	A molecular circadian clock operates in the parathyroid gland and is disturbed in chronic kidney disease associated bone and mineral disorder. <b>2020</b> , 98, 1461-1475		5
89	Casein kinase 1.2 over expression restores stress resistance to Leishmania donovani HSP23 null mutants. <b>2020</b> , 10, 15969		4
88	New insights into non-transcriptional regulation of mammalian core clock proteins. <b>2020</b> , 133,		11
87	NAD Controls Circadian Reprogramming through PER2 Nuclear Translocation to Counter Aging. <i>Molecular Cell</i> , <b>2020</b> , 78, 835-849.e7	17.6	42
86	Time-Restricted Eating: Benefits, Mechanisms, and Challenges in Translation. <b>2020</b> , 23, 101161		28
85	Oncogenic and Circadian Effects of Small Molecules Directly and Indirectly Targeting the Core Circadian Clock. <b>2020</b> , 19, 1534735420924094		5
84	Recent advances in modulators of circadian rhythms: an update and perspective. <b>2020</b> , 35, 1267-1286		5
83	Systems Level Understanding of Circadian Integration with Cell Physiology. <b>2020</b> , 432, 3547-3564		11
82	Molecular-genetic Manipulation of the Suprachiasmatic Nucleus Circadian Clock. <b>2020</b> , 432, 3639-3660		14
81	Quantitative live imaging of Venus::BMAL1 in a mouse model reveals complex dynamics of the master circadian clock regulator. <b>2020</b> , 16, e1008729		11
80	1,2,4-Triazolin-5-thione derivatives with anticancer activity as CK1 kinase inhibitors. <b>2020</b> , 99, 103806		6
79	A MAGEL2-deubiquitinase complex modulates the ubiquitination of circadian rhythm protein CRY1. <b>2020</b> , 15, e0230874		8
78	Astrocytic Modulation of Neuronal Activity in the Suprachiasmatic Nucleus: Insights from Mathematical Modeling. <i>Journal of Biological Rhythms</i> , <b>2020</b> , 35, 287-301	3.2	2

77	The Cell-Autonomous Clock of VIP Receptor VPAC2 Cells Regulates Period and Coherence of Circadian Behavior. <b>2021</b> , 41, 502-512	5
76	SynGAP is expressed in the murine suprachiasmatic nucleus and regulates circadian-gated locomotor activity and light-entrainment capacity. <b>2021</b> , 53, 732-749	2
75	Mice held at an environmental photic cycle oscillating at their -like period length do not show the high-fat diet-induced obesity that develops under the 24-hour photic cycle. <b>2021</b> , 38, 598-612	1
74	The circadian clock: a central mediator of cartilage maintenance and osteoarthritis development?. <b>2021</b> , 60, 3048-3057	1
73	The molecular clockwork of mammalian cells. <b>2021</b> ,	2
72	The phosphorylation switch that regulates ticking of the circadian clock. <i>Molecular Cell</i> , <b>2021</b> , 81, 1133-1146	18
71	Complementary phase responses via functional differentiation of dual negative feedback loops. <b>2021</b> , 17, e1008774	
70	Biological Timing and Neurodevelopmental Disorders: A Role for Circadian Dysfunction in Autism Spectrum Disorders. <b>2021</b> , 15, 642745	9
69	Translating around the clock: Multi-level regulation of post-transcriptional processes by the circadian clock. <b>2021</b> , 80, 109904	3
68	Time to fight: targeting the circadian clock molecular machinery in cancer therapy. <b>2021</b> , 26, 1164-1184	2
67	Timed daily exercise remodels circadian rhythms in mice. <b>2021</b> , 4, 761	7
66	FRQ-CK1 Interaction Underlies Temperature Compensation of the Circadian Clock. <b>2021</b> , 12, e0142521	0
65	NPAS4 regulates the transcriptional response of the suprachiasmatic nucleus to light and circadian behavior. <i>Neuron</i> , <b>2021</b> , 109, 3268-3282.e6	13,9 8
64	Casein kinase 1 epsilon and circadian misalignment impact affective behaviours in mice. <b>2021</b> ,	0
63	CRYPTOCHROMES confer robustness, not rhythmicity, to circadian timekeeping. <b>2021</b> , 40, e106745	12
62	The risks of using the chi-square periodogram to estimate the period of biological rhythms. <b>2021</b> , 17, e1008567	5
61	Posttranslational Regulation of Circadian Clocks. <b>2010</b> , 79-104	3
60	Circadian and Circalunar Clock Interactions and the Impact of Light in <i>Platynereis dumerilii</i> . <b>2014</b> , 143-162	4



59	Functions and regulation of the serine/threonine protein kinase CK1 family: moving beyond promiscuity. <b>2020</b> , 477, 4603-4621	5
58	The neural circadian system of mammals. <b>2011</b> , 49, 1-17	14
57	Compensatory ion transport buffers daily protein rhythms to regulate osmotic balance and cellular physiology.	4
56	The chondrocyte clock gene Bmal1 controls cartilage homeostasis and integrity. <b>2016</b> , 126, 365-76	97
55	Casein kinase 1 delta (CK1delta) regulates period length of the mouse suprachiasmatic circadian clock in vitro. <b>2010</b> , 5, e10303	39
54	Protein phosphatase 1 (PP1) is a post-translational regulator of the mammalian circadian clock. <b>2011</b> , 6, e21325	27
53	The transcription factor Runx2 is under circadian control in the suprachiasmatic nucleus and functions in the control of rhythmic behavior. <b>2013</b> , 8, e54317	25
52	The circadian timing system: a recent addition in the physiological mechanisms underlying pathological and aging processes. <b>2014</b> , 5, 406-18	13
51	Reciprocal Control of the Circadian Clock and Cellular Redox State - a Critical Appraisal. <b>2016</b> , 39, 6-19	49
50	Circadian Rhythm Disruption and Alzheimer's Disease: The Dynamics of a Vicious Cycle. <b>2021</b> , 19, 248-264	13
49	Clock genes in health and diseases. <b>2009</b> , 7, 15-33	16
48	Salt-inducible kinase 3 regulates the mammalian circadian clock by destabilizing PER2 protein. <b>2017</b> , 6,	22
47	Cyclin-dependent kinase 5 (CDK5) regulates the circadian clock. <b>2019</b> , 8,	15
46	Casein kinase 1 dynamics underlie substrate selectivity and the PER2 circadian phosphoswitch. <b>2020</b> , 9,	26
45	Clock gene-independent daily regulation of haemoglobin oxidation in red blood cells.	
44	Compensatory ion transport buffers daily protein rhythms to regulate osmotic balance and cellular physiology. <b>2021</b> , 12, 6035	5
43	Clock Genes and Energy Metabolism. <b>2012</b> , 13-32	
42	Metabolic and Contractile Remodelling in the Diabetic Heart: An Evolutionary Perspective. <b>2014</b> , 27-40	

- 41 Protein Modifications Pace the Circadian Oscillation of Biological Clocks. **2015**, 251-268
- 40 Gènes d'horloge : de la drosophile à l'homme. **2015**, 199, 1115-1131
- 39 Salt-inducible kinase 3 regulates the mammalian circadian clock by destabilizing PER2 protein.
- 38 Autophagy Regulates the Liver Clock and Glucose Metabolism by Degrading CRY1. *SSRN Electronic Journal*, 1
- 37 Distinct control of PERIOD2 degradation and circadian rhythms by the oncoprotein MDM2.
- 36 Oncogenic and Circadian Effects of Small Molecules Directly and Indirectly Targeting the Core Circadian Clock. 0
- 35 Autophosphorylation of the CK1 kinase domain regulates enzyme activity and function.
- 34 Cyclin Dependent Kinase 5 (CDK5) Regulates the Circadian Clock.
- 33 CRYPTOCHROMES confer robustness, not rhythmicity, to circadian timekeeping. 1
- 32 Altered Affective Behaviors in Casein Kinase 1 Epsilon Mutant Mice.
- 31 The cell-autonomous clock of VIP receptor VPAC2 cells drives circadian behaviour.
- 30 The risks of using the chi-square periodogram to estimate the period of biological rhythms.
- 29 REV-ERB nuclear receptors in the suprachiasmatic nucleus control circadian period and restrict diet-induced obesity. **2021**, 7, eabh2007 1
- 28 Role of Heterozygous and Homozygous Alleles in Cryptochrome-Deficient Mice. *SSRN Electronic Journal*, 1
- 27 Diversified regulation of circadian clock gene expression following whole genome duplication.
- 26 Protein Kinases in the Photic Signaling of the Mammalian Circadian Clock. *Yale Journal of Biology and Medicine*, **2019**, 92, 241-250 2.4 6
- 25 Systematic Studies of the Circadian Clock Genes Impact on Temperature Compensation and Cell Proliferation Using CRISPR Tools. *Biology*, **2021**, 10, 4.9 2
- 24 Introduction to the Clock System. *Advances in Experimental Medicine and Biology*, **2021**, 1344, 3-20 3.6 0

23	Astrocyte Circadian Timekeeping in Brain Health and Neurodegeneration. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1344, 87-110	3.6	1
22	Role of heterozygous and homozygous alleles in cryptochrome-deficient mice.. <i>Neuroscience Letters</i> , <b>2021</b> , 136415	3.3	0
21	Photic Entrainment of the Circadian System.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	4
20	Kinase domain autophosphorylation rewires the activity and substrate specificity of CK1 enzymes.. <i>Molecular Cell</i> , <b>2022</b> ,	17.6	0
19	Arginine-Vasopressin Expressing Neurons in the Murine Suprachiasmatic Nucleus Exhibit a Circadian Rhythm in Network Coherence in vivo.		0
18	Table_1.DOCX. <b>2018</b> ,		
17	is a null mutation of Cryptochrome 1 in Syrian hamsters.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2123560119	11.5	1
16	Neurobiology of Circadian Rhythm Regulation. <i>Sleep Medicine Clinics</i> , <b>2022</b> ,	3.6	0
15	Circadian clocks, cognition, and Alzheimer's disease: synaptic mechanisms, signaling effectors, and chronotherapeutics.. <i>Molecular Neurodegeneration</i> , <b>2022</b> , 17, 35	19	2
14	Development of the circadian system in early life: maternal and environmental factors.. <i>Journal of Physiological Anthropology</i> , <b>2022</b> , 41, 22	2.5	0
13	Protein interaction networks of the mammalian core clock proteins. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2022</b> ,	5.3	1
12	Circadian Responses to Light in the BTBR Mouse. <i>Journal of Biological Rhythms</i> , 074873042211022	3.2	0
11	Biological Rhythm Measurements in Rodents. <b>2022</b> , 29-62		1
10	Chrononutrition When We Eat Is of the Essence in Tackling Obesity. <b>2022</b> , 14, 5080		1
9	The circadian clock gene <i>bmal1</i> is necessary for co-ordinated circatidal rhythms in the marine isopod <i>Eurydice pulchra</i> (Leach).		0
8	Evolution of casein kinase 1 and functional analysis of new doubletime mutants in <i>Drosophila</i> . 13,		0
7	Aging, circadian disruption and neurodegeneration: Interesting interplay. <b>2023</b> , 172, 112076		0
6	Circadian circuits. <b>2023</b> , 497-533		0

- 5 Metabolism and exercise: the skeletal muscle clock takes centre stage. **2023**, 19, 272-284
- 4 The multiple roles of salt-inducible kinases in regulating physiology.
- 3 CK1 $\delta$  homeostasis by activity-dependent shuttling and degradation of orphan kinase.
- 2 Cells and Circuits of the Suprachiasmatic Nucleus and the Control of Circadian Behaviour and Sleep. **2023**, 33-70
- 1 Single nucleotide polymorphisms (SNPs) in circadian genes: Impact on gene function and phenotype. **2023**,