

Hugh David Piggins

List of Publications by Year in descending order

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99
papers

5,115
citations

94269

37
h-index

95083

68
g-index

103
all docs

103
docs citations

103
times ranked

4011
citing authors

#	ARTICLE	IF	CITATIONS
1	The VPAC2 Receptor Is Essential for Circadian Function in the Mouse Suprachiasmatic Nuclei. <i>Cell</i> , 2002, 109, 497-508.	13.5	488
2	Setting Clock Speed in Mammals: The CK1 ϵ tau Mutation in Mice Accelerates Circadian Pacemakers by Selectively Destabilizing PERIOD Proteins. <i>Neuron</i> , 2008, 58, 78-88.	3.8	342
3	Challenging the omnipotence of the suprachiasmatic timekeeper: are circadian oscillators present throughout the mammalian brain?. <i>European Journal of Neuroscience</i> , 2007, 25, 3195-3216.	1.2	309
4	Melanopsin Contributions to Irradiance Coding in the Thalamo-Cortical Visual System. <i>PLoS Biology</i> , 2010, 8, e1000558.	2.6	226
5	Daily Electrical Silencing in the Mammalian Circadian Clock. <i>Science</i> , 2009, 326, 281-284.	6.0	156
6	A riot of rhythms: neuronal and glial circadian oscillators in the mediobasal hypothalamus. <i>Molecular Brain</i> , 2009, 2, 28.	1.3	153
7	Electrophysiology of the suprachiasmatic circadian clock. <i>Progress in Neurobiology</i> , 2007, 82, 229-255.	2.8	130
8	The mouse VPAC2receptor confers suprachiasmatic nuclei cellular rhythmicity and responsiveness to vasoactive intestinal polypeptide in vitro. <i>European Journal of Neuroscience</i> , 2003, 17, 197-204.	1.2	129
9	Vasoactive intestinal polypeptide (VIP) phase-shifts the rat suprachiasmatic nucleus clock in vitro. <i>European Journal of Neuroscience</i> , 2001, 13, 839-843.	1.2	120
10	Distinct roles for GABA across multiple timescales in mammalian circadian timekeeping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3911-9.	3.3	120
11	The Circadian Clock in Murine Chondrocytes Regulates Genes Controlling Key Aspects of Cartilage Homeostasis. <i>Arthritis and Rheumatism</i> , 2013, 65, 2334-2345.	6.7	117
12	Acute Suppressive and Long-Term Phase Modulation Actions of Orexin on the Mammalian Circadian Clock. <i>Journal of Neuroscience</i> , 2014, 34, 3607-3621.	1.7	116
13	Distribution of pituitary adenylate cyclase activating polypeptide (PACAP) immunoreactivity in the hypothalamus and extended amygdala of the rat. <i>Journal of Comparative Neurology</i> , 1996, 376, 278-294.	0.9	113
14	Gastrin-Releasing Peptide Promotes Suprachiasmatic Nuclei Cellular Rhythmicity in the Absence of Vasoactive Intestinal Polypeptide-VPAC2 Receptor Signaling. <i>Journal of Neuroscience</i> , 2005, 25, 11155-11164.	1.7	109
15	Circadian and Photic Regulation of Phosphorylation of ERK1/2 and Elk-1 in the Suprachiasmatic Nuclei of the Syrian Hamster. <i>Journal of Neuroscience</i> , 2003, 23, 3085-3093.	1.7	102
16	Circadian and dark-pulse activation of orexin/hypocretin neurons. <i>Molecular Brain</i> , 2008, 1, 19.	1.3	102
17	Gastrin-Releasing Peptide Phase-Shifts Suprachiasmatic Nuclei Neuronal Rhythms In Vitro. <i>Journal of Neuroscience</i> , 2000, 20, 5496-5502.	1.7	94
18	Aberrant Gating of Photic Input to the Suprachiasmatic Circadian Pacemaker of Mice Lacking the VPAC2 Receptor. <i>Journal of Neuroscience</i> , 2004, 24, 3522-3526.	1.7	94

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19	Multiple hypothalamic cell populations encoding distinct visual information. <i>Journal of Physiology</i> , 2011, 589, 1173-1194.	1.3	85
20	Ultradian corticosterone secretion is maintained in the absence of circadian cues. <i>European Journal of Neuroscience</i> , 2012, 36, 3142-3150.	1.2	80
21	Feedback actions of locomotor activity to the circadian clock. <i>Progress in Brain Research</i> , 2012, 199, 305-336.	0.9	73
22	Orexin A-like immunoreactivity in the hypothalamus and thalamus of the Syrian hamster (<i>Mesocricetus auratus</i>) and Siberian hamster (<i>Phodopus sungorus</i>), with special reference to circadian structures. <i>Brain Research</i> , 2001, 904, 234-244.	1.1	71
23	Metabolic rhythm abnormalities in mice lacking VIP-VPAC ₂ signaling. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R344-R351.	0.9	68
24	MAP kinases in the mammalian circadian system - key regulators of clock function. <i>Journal of Neurochemistry</i> , 2004, 90, 769-775.	2.1	62
25	Circadian changes in PACAP type 1 (PAC1) receptor mRNA in the rat suprachiasmatic and supraoptic nuclei. <i>Brain Research</i> , 1998, 813, 218-222.	1.1	59
26	Expression of VIP and/or PACAP receptor mRNA in peptide synthesizing cells within the suprachiasmatic nucleus of the rat and in its efferent target sites. <i>Journal of Comparative Neurology</i> , 2004, 475, 19-35.	0.9	58
27	Intrinsic and extrinsic cues regulate the daily profile of mouse lateral habenula neuronal activity. <i>Journal of Physiology</i> , 2014, 592, 5025-5045.	1.3	57
28	Circadian changes in the expression of vasoactive intestinal peptide 2 receptor mRNA in the rat suprachiasmatic nuclei. <i>Molecular Brain Research</i> , 1998, 54, 108-112.	2.5	55
29	Live imaging of altered <i>period1</i> expression in the suprachiasmatic nuclei of <i>Vipr2^Δ</i> mice. <i>Journal of Neurochemistry</i> , 2008, 106, 1646-1657.	2.1	55
30	Circadian VIPergic Neurons of the Suprachiasmatic Nuclei Sculpt the Sleep-Wake Cycle. <i>Neuron</i> , 2020, 108, 486-499.e5.	3.8	55
31	Contributions of the lateral habenula to circadian timekeeping. <i>Pharmacology Biochemistry and Behavior</i> , 2017, 162, 46-54.	1.3	54
32	Human clock genes. <i>Annals of Medicine</i> , 2002, 34, 394-400.	1.5	52
33	Distribution of substance P and neurokinin-1 receptor immunoreactivity in the suprachiasmatic nuclei and intergeniculate leaflet of hamster, mouse, and rat. <i>Journal of Comparative Neurology</i> , 2001, 438, 50-65.	0.9	46
34	A circadian clock in the sinus node mediates day-night rhythms in <i>Hcn4</i> and heart rate. <i>Heart Rhythm</i> , 2021, 18, 801-810.	0.3	46
35	VIP receptors control excitability of suprachiasmatic nuclei neurones. <i>Pflugers Archiv European Journal of Physiology</i> , 2006, 452, 7-15.	1.3	43
36	Daily variation in the electrophysiological activity of mouse medial habenula neurones. <i>Journal of Physiology</i> , 2014, 592, 587-603.	1.3	42

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37	Vasoactive intestinal polypeptide phase-advances the rat suprachiasmatic nuclei circadian pacemaker in vitro via protein kinase A and mitogen-activated protein kinase. <i>Neuroscience Letters</i> , 2004, 358, 91-94.	1.0	41
38	Causes and Consequences of Hyperexcitation in Central Clock Neurons. <i>PLoS Computational Biology</i> , 2013, 9, e1003196.	1.5	39
39	Phase-shifting effects of pituitary adenylate cyclase activating polypeptide on hamster wheel-running rhythms. <i>Neuroscience Letters</i> , 2001, 305, 25-28.	1.0	38
40	A novel suction electrode recording technique for monitoring circadian rhythms in single and multiunit discharge from brain slices. <i>Journal of Neuroscience Methods</i> , 2006, 156, 173-181.	1.3	34
41	Effects of Microinjections of Substance P Into the Suprachiasmatic Nucleus Region on Hamster Wheel-Running Rhythms. <i>Brain Research Bulletin</i> , 1997, 42, 451-455.	1.4	33
42	Regulation of melatonin-sensitivity and firing-rate rhythms of hamster suprachiasmatic nucleus neurons: constant light effects. <i>Brain Research</i> , 1993, 602, 191-199.	1.1	31
43	Distribution of ionotropic glutamate receptor subunit immunoreactivity in the suprachiasmatic nucleus and intergeniculate leaflet of the hamster. <i>Brain Research</i> , 1997, 756, 215-224.	1.1	30
44	Identification of PAC1 receptor isoform mRNAs by real-time PCR in rat suprachiasmatic nucleus. <i>Molecular Brain Research</i> , 2002, 105, 29-37.	2.5	29
45	Dark pulse suppression of P-ERK and c-Fos in the hamster suprachiasmatic nuclei. <i>European Journal of Neuroscience</i> , 2005, 22, 158-168.	1.2	27
46	Modeling sleep alterations in Parkinson's disease: How close are we to valid translational animal models?. <i>Sleep Medicine Reviews</i> , 2016, 25, 95-111.	3.8	27
47	Timekeeping in the hindbrain: a multi-oscillatory circadian centre in the mouse dorsal vagal complex. <i>Communications Biology</i> , 2020, 3, 225.	2.0	27
48	Effects of ionophoretically applied bombesin-like peptides on hamster suprachiasmatic nucleus neurons in vitro. <i>European Journal of Pharmacology</i> , 1994, 271, 413-419.	1.7	26
49	Electrophysiological Effects of Pressure-Ejected Bombesin-Like Peptides on Hamster Suprachiasmatic Nucleus Neurons in vitro. <i>Journal of Neuroendocrinology</i> , 1993, 5, 575-581.	1.2	25
50	Deletion of the secretory vesicle proteins $IA\alpha$ and $IA\alpha^2$ disrupts circadian rhythms of cardiovascular and physical activity. <i>FASEB Journal</i> , 2009, 23, 3226-3232.	0.2	25
51	PACAP Neurons in the Ventromedial Hypothalamic Nucleus Are Glucose Inhibited and Their Selective Activation Induces Hyperglycaemia. <i>Frontiers in Endocrinology</i> , 2018, 9, 632.	1.5	24
52	Ionophoretically applied substance P activates hamster suprachiasmatic nucleus neurons. <i>Brain Research Bulletin</i> , 1995, 37, 475-479.	1.4	23
53	Expression of $mt1$ melatonin receptor subtype mRNA in the entrained rat suprachiasmatic nucleus: a quantitative RT-PCR study across the diurnal cycle. <i>Molecular Brain Research</i> , 1999, 72, 176-182.	2.5	23
54	Circadian regulation of mouse suprachiasmatic nuclei neuronal states shapes responses to orexin. <i>European Journal of Neuroscience</i> , 2017, 45, 723-732.	1.2	23

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55	Neurotensin phase-shifts the firing rate rhythm of neurons in the rat suprachiasmatic nucleus in vitro. <i>European Journal of Neuroscience</i> , 2002, 16, 339-344.	1.2	22
56	Circadian Biology: Clocks within Clocks. <i>Current Biology</i> , 2005, 15, R455-R457.	1.8	22
57	Circadian Disruptions in the Myshkin Mouse Model of Mania Are Independent of Deficits in Suprachiasmatic Molecular Clock Function. <i>Biological Psychiatry</i> , 2018, 84, 827-837.	0.7	22
58	Timed daily exercise remodels circadian rhythms in mice. <i>Communications Biology</i> , 2021, 4, 761.	2.0	22
59	Neuropeptide Signaling Differentially Affects Phase Maintenance and Rhythm Generation in SCN and Extra-SCN Circadian Oscillators. <i>PLoS ONE</i> , 2011, 6, e18926.	1.1	21
60	Visual responses in the lateral geniculate evoked by Cx36-independent rod pathways. <i>Vision Research</i> , 2011, 51, 280-287.	0.7	21
61	Suppressed cellular oscillations in after-hours mutant mice are associated with enhanced circadian phase-resetting. <i>Journal of Physiology</i> , 2013, 591, 1063-1080.	1.3	21
62	The Kidney Clock Contributes to Timekeeping by the Master Circadian Clock. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2765.	1.8	21
63	Effects of dopamine D1 and D2 receptor agonists and antagonists on bombesin-induced behaviors. <i>European Journal of Pharmacology</i> , 1990, 191, 281-293.	1.7	20
64	Gastrin-releasing peptide induces c-Fos in the hamster suprachiasmatic nucleus. <i>Neuroscience Letters</i> , 2005, 384, 205-210.	1.0	20
65	<i>Neurospora crassa</i> heat shock factor 1 is an Essential Gene; a Second Heat Shock Factor-Like Gene, <i>hsf2</i> , Is Required for Asexual Spore Formation. <i>Eukaryotic Cell</i> , 2008, 7, 1573-1581.	3.4	19
66	Dietary fat and corticosterone levels are contributing factors to meal anticipation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R711-R723.	0.9	19
67	Sleep homeostasis during daytime food entrainment in mice. <i>Sleep</i> , 2019, 42, .	0.6	19
68	The neural circadian system of mammals. <i>Essays in Biochemistry</i> , 2011, 49, 1-17.	2.1	19
69	Constant light enhances synchrony among circadian clock cells and promotes behavioral rhythms in VPAC2-signaling deficient mice. <i>Scientific Reports</i> , 2015, 5, 14044.	1.6	18
70	Responses to neuropeptide Y in adult hamster suprachiasmatic nucleus neurones in vitro. <i>European Journal of Pharmacology</i> , 1998, 345, 155-162.	1.7	16
71	VPAC2 receptor expression in human normal and neoplastic tissues: evaluation of the novel MAB SP235. <i>Endocrine Connections</i> , 2015, 4, 18-26.	0.8	16
72	Keeping time in the lamina terminalis: Novel oscillator properties of forebrain sensory circumventricular organs. <i>FASEB Journal</i> , 2020, 34, 974-987.	0.2	13

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73	Phasic Neuronal Firing in the Rodent Nucleus of the Solitary Tract ex vivo. <i>Frontiers in Physiology</i> , 2021, 12, 638695.	1.3	13
74	Daily changes in neuronal activities of the dorsal motor nucleus of the vagus under standard and high-fat diet. <i>Journal of Physiology</i> , 2022, 600, 733-749.	1.3	13
75	Rhythmic neuronal activities of the rat nucleus of the solitary tract are impaired by high-fat diet – implications for daily control of satiety. <i>Journal of Physiology</i> , 2022, 600, 751-767.	1.3	13
76	Delayed Cryptochrome Degradation Asymmetrically Alters the Daily Rhythm in Suprachiasmatic Clock Neuron Excitability. <i>Journal of Neuroscience</i> , 2017, 37, 7824-7836.	1.7	12
77	Perforated Multi-Electrode Array Recording in Hypothalamic Brain Slices. <i>Methods in Molecular Biology</i> , 2021, 2130, 263-285.	0.4	11
78	The effects of concurrent D-1 and D-2 dopamine receptor blockade with sch 23390 and eticlopride, on bombesin-induced behaviours. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 1989, 13, 583-594.	2.5	10
79	Short- and long-term behavioral effects of neonatal exposure to bombesin. <i>Behavioral and Neural Biology</i> , 1992, 57, 213-225.	2.3	10
80	Circadian changes of type II adenylyl cyclase mRNA in the rat suprachiasmatic nuclei. <i>Brain Research</i> , 1998, 810, 279-282.	1.1	10
81	Actions of histamine in the suprachiasmatic nucleus of the Syrian hamster. <i>Brain Research</i> , 1998, 783, 1-9.	1.1	9
82	Zooming in on a gene. <i>Nature</i> , 2011, 471, 455-456.	13.7	9
83	Disruption of daily rhythms in gene expression: The importance of being synchronised. <i>BioEssays</i> , 2014, 36, 644-648.	1.2	9
84	Effects of neonatal blockade of bombesin (BN) receptors with [d-Phe6, ¹ Leu13-Cpa14]BN(6-14) on adult behavior and sensitivity to BN. <i>Peptides</i> , 1993, 14, 845-848.	1.2	7
85	Circadian Time Redoxed. <i>Science</i> , 2012, 337, 805-806.	6.0	7
86	On the ontogenetic and sequential characteristics of bombesin-induced grooming in the infant rat. <i>Developmental Brain Research</i> , 1992, 67, 247-256.	2.1	6
87	Circadian Influences on the Habenula and Their Potential Contribution to Neuropsychiatric Disorders. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 815700.	1.0	5
88	The Mammalian Neural Circadian System: From Molecules to Behaviour. , 2017, , 257-275.		3
89	Feeding time. <i>ELife</i> , 2015, 4, .	2.8	3
90	Orexin and Circadian Influences in Sleep and Psychiatric Disorders: A Review of Experimental and Computational Modelling Studies. , 2015, , 299-322.		2

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91	Substance P and neurokinin-1 immunoreactivities in the neural circadian system of the Alaskan northern red-backed vole, <i>Clethrionomys rutilus</i> . <i>Peptides</i> , 2006, 27, 2976-2992.	1.2	1
92	Abundance of Degrees of Freedom. , 2008, , 3-3.		1
93	Stabilizing daily clock proteins. <i>Biochemical Journal</i> , 2006, 399, e1-2.	1.7	0
94	Biological clocks and endocrine function in vertebrates and invertebrates. <i>General and Comparative Endocrinology</i> , 2007, 152, 142-143.	0.8	0
95	Quantifying the visual information sourced from melanopsin photoreceptors in mouse LGN field responses. <i>BMC Neuroscience</i> , 2011, 12, .	0.8	0
96	Identifying spatial and temporal organization in the circadian clock (<sc>C</sc>ommentary on) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	1.2	0
97	Editorial overview: Circadian rhythms. <i>Current Opinion in Physiology</i> , 2018, 5, iii-v.	0.9	0
98	Circadian and Dark-Pulse Activation of Orexin/Hypocretin Neurons. , 2014, , 159-187.		0
99	32“...Sleep quality, mental health, and circadian rhythms during COVID lockdown “ results from the SleepQuest study. , 2021, , .		0