

Amita Sehgal

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

7,320
citations

87401

40
h-index

73587

79
g-index

104
all docs

104
docs citations

104
times ranked

6397
citing authors

#	ARTICLE	IF	CITATIONS
1	Consolidation of sleep-dependent appetitive memory is mediated by a sweet-sensing circuit. <i>Journal of Neuroscience</i> , 2022, , JN-RM-0106-22.	1.7	3
2	Availability of food determines the need for sleep in memory consolidation. <i>Nature</i> , 2021, 589, 582-585.	13.7	51
3	Manipulations of the olfactory circuit highlight the role of sensory stimulation in regulating sleep amount. <i>Sleep</i> , 2021, 44, .	0.6	9
4	A circadian clock regulates efflux by the blood-brain barrier in mice and human cells. <i>Nature Communications</i> , 2021, 12, 617.	5.8	63
5	Time-of-day specificity of anticancer drugs may be mediated by circadian regulation of the cell cycle. <i>Science Advances</i> , 2021, 7, .	4.7	38
6	Loss of circadian protection against influenza infection in adult mice exposed to hyperoxia as neonates. <i>ELife</i> , 2021, 10, .	2.8	15
7	<i>Drosophila</i> clock cells use multiple mechanisms to transmit time-of-day signals in the brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
8	Short and long sleeping mutants reveal links between sleep and macroautophagy. <i>ELife</i> , 2021, 10, .	2.8	22
9	Circadian Rhythms, Disease and Chronotherapy. <i>Journal of Biological Rhythms</i> , 2021, 36, 503-531.	1.4	55
10	The 2020 Pittendrigh/Aschoff Lecture: My Circadian Journey. <i>Journal of Biological Rhythms</i> , 2021, 36, 84-96.	1.4	1
11	Monitoring Electrical Activity in <i>Drosophila</i> Circadian Output Neurons. <i>Methods in Molecular Biology</i> , 2021, 2130, 221-232.	0.4	1
12	<i>Hugin</i> neurons provide a link between sleep homeostat and circadian clock neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
13	Molecular and circuit mechanisms mediating circadian clock output in the <i>Drosophila</i> brain. <i>European Journal of Neuroscience</i> , 2020, 51, 268-281.	1.2	59
14	RNA Splicing Factor Mutations That Cause Retinitis Pigmentosa Result in Circadian Dysregulation. <i>Journal of Biological Rhythms</i> , 2020, 35, 72-83.	1.4	5
15	The Lineage Before Time: Circadian and Nonclassical Clock Influences on Development. <i>Annual Review of Cell and Developmental Biology</i> , 2020, 36, 469-509.	4.0	4
16	Anandamide Metabolites Protect against Seizures through the TRP Channel Water Witch in <i>Drosophila melanogaster</i> . <i>Cell Reports</i> , 2020, 31, 107710.	2.9	12
17	Glial Metabolic Rewiring Promotes Axon Regeneration and Functional Recovery in the Central Nervous System. <i>Cell Metabolism</i> , 2020, 32, 767-785.e7.	7.2	64
18	Circadian and Sleep Metabolomics Across Species. <i>Journal of Molecular Biology</i> , 2020, 432, 3578-3610.	2.0	34

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19	The Glial Perspective on Sleep and Circadian Rhythms. Annual Review of Neuroscience, 2020, 43, 119-140.	5.0	31
20	AANAT1 functions in astrocytes to regulate sleep homeostasis. ELife, 2020, 9, .	2.8	24
21	Splicing the Clock to Maintain and Entrain Circadian Rhythms. Journal of Biological Rhythms, 2019, 34, 584-595.	1.4	13
22	The NRON complex controls circadian clock function through regulated PER and CRY nuclear translocation. Scientific Reports, 2019, 9, 11883.	1.6	23
23	A sleep-inducing gene, <i>nemuri</i> , links sleep and immune function in <i>Drosophila</i> . Science, 2019, 363, 509-515.	6.0	128
24	Regulation of the Blood-Brain Barrier by Circadian Rhythms and Sleep. Trends in Neurosciences, 2019, 42, 500-510.	4.2	121
25	G1/S cell cycle regulators mediate effects of circadian dysregulation on tumor growth and provide targets for timed anticancer treatment. PLoS Biology, 2019, 17, e3000228.	2.6	71
26	Misregulation of <i>Drosophila</i> Myc Disrupts Circadian Behavior and Metabolism. Cell Reports, 2019, 29, 1778-1788.e4.	2.9	5
27	A Circadian Clock in the Blood-Brain Barrier Regulates Xenobiotic Efflux. Cell, 2018, 173, 130-139.e10.	13.5	162
28	Wolbachia affects sleep behavior in <i>Drosophila melanogaster</i> . Journal of Insect Physiology, 2018, 107, 81-88.	0.9	24
29	Circadian- and Light-driven Metabolic Rhythms in <i>Drosophila melanogaster</i> . Journal of Biological Rhythms, 2018, 33, 126-136.	1.4	24
30	Cold Temperatures Fire up Circadian Neurons. Cell Metabolism, 2018, 27, 951-953.	7.2	5
31	A Conserved Circadian Function for the Neurofibromatosis 1 Gene. Cell Reports, 2018, 22, 3416-3426.	2.9	42
32	Genetic Mechanisms Underlying Sleep. Cold Spring Harbor Symposia on Quantitative Biology, 2018, 83, 57-61.	2.0	3
33	Circadian and Sleep Circuits Ring Together. Neuron, 2018, 100, 514-516.	3.8	4
34	Asymmetric vasopressin signaling spatially organizes the master circadian clock. Journal of Comparative Neurology, 2018, 526, 2048-2067.	0.9	19
35	Spliceosome factors target timeless (<i>tim</i>) mRNA to control clock protein accumulation and circadian behavior in <i>Drosophila</i> . ELife, 2018, 7, .	2.8	30
36	Endocytosis at the <i>Drosophila</i> blood-brain barrier as a function for sleep. ELife, 2018, 7, .	2.8	72

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37	Structural Plasticity Analysis of Drosophila Sleep Circuit After Thermogenetic Sleep Deprivation. FASEB Journal, 2018, 32, lb538.	0.2	0
38	Human and rat gut microbiome composition is maintained following sleep restriction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1564-E1571.	3.3	106
39	Molecular Mechanisms of Sleep Homeostasis in Flies and Mammals. Cold Spring Harbor Perspectives in Biology, 2017, 9, a027730.	2.3	118
40	The Drosophila circuitry of sleep-wake regulation. Current Opinion in Neurobiology, 2017, 44, 243-250.	2.0	98
41	Circadian Rhythms and Sleep in <i>Drosophila melanogaster</i> . Genetics, 2017, 205, 1373-1397.	1.2	331
42	Physiology Flies with Time. Cell, 2017, 171, 1232-1235.	13.5	40
43	Guidelines for Genome-Scale Analysis of Biological Rhythms. Journal of Biological Rhythms, 2017, 32, 380-393.	1.4	237
44	A Peptidergic Circuit Links the Circadian Clock to Locomotor Activity. Current Biology, 2017, 27, 1915-1927.e5.	1.8	70
45	Neural clocks and Neuropeptide F/Y regulate circadian gene expression in a peripheral metabolic tissue. ELife, 2016, 5, .	2.8	61
46	Circadian and feeding cues integrate to drive rhythms of physiology in <i>Drosophila</i> insulin-producing cells. Genes and Development, 2016, 30, 2596-2606.	2.7	102
47	Changes in Female <i>Drosophila</i> Sleep following Mating Are Mediated by SPSN-SAG Neurons. Journal of Biological Rhythms, 2016, 31, 551-567.	1.4	37
48	Tumors set time. Science, 2016, 353, 987-988.	6.0	2
49	Caffeine promotes wakefulness via dopamine signaling in Drosophila. Scientific Reports, 2016, 6, 20938.	1.6	68
50	Genetic Dissociation of Daily Sleep and Sleep Following Thermogenetic Sleep Deprivation in <i>Drosophila</i> . Sleep, 2016, 39, 1083-1095.	0.6	26
51	Circadian Rhythms, Sleep, and Disorders of Aging. Trends in Endocrinology and Metabolism, 2016, 27, 192-203.	3.1	247
52	Peripheral Circadian Clocks Mediate Dietary Restriction-Dependent Changes in Lifespan and Fat Metabolism in Drosophila. Cell Metabolism, 2016, 23, 143-154.	7.2	139
53	Context-specific comparison of sleep acquisition systems in <i>Drosophila</i> . Biology Open, 2015, 4, 1558-1568.	0.6	54
54	Drosophila Nipped-B Mutants Model Cornelia de Lange Syndrome in Growth and Behavior. PLoS Genetics, 2015, 11, e1005655.	1.5	33

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55	Sleep deprivation suppresses aggression in <i>Drosophila</i> . <i>ELife</i> , 2015, 4, e07643.	2.8	55
56	KPNB1 mediates PER/CRY nuclear translocation and circadian clock function. <i>ELife</i> , 2015, 4, .	2.8	37
57	Oxalic acid and diacylglycerol 36:3 are cross-species markers of sleep debt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2569-2574.	3.3	121
58	Heating and cooling the <i>Drosophila melanogaster</i> clock. <i>Current Opinion in Insect Science</i> , 2015, 7, 71-75.	2.2	17
59	<i>Drosophila</i> TIM Binds Importin $\hat{\pm}$ 1, and Acts as an Adapter to Transport PER to the Nucleus. <i>PLoS Genetics</i> , 2015, 11, e1004974.	1.5	72
60	Temperature Oscillations Drive Cycles in the Activity of MMP-2,9 Secreted by a Human Trabecular Meshwork Cell Line. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 1396-1405.	3.3	7
61	Independent Effects of $\hat{\gamma}$ -Aminobutyric Acid Transaminase (GABAT) on Metabolic and Sleep Homeostasis. <i>Journal of Biological Chemistry</i> , 2015, 290, 20407-20416.	1.6	29
62	Ribosome profiling reveals an important role for translational control in circadian gene expression. <i>Genome Research</i> , 2015, 25, 1836-1847.	2.4	99
63	Anaplastic Lymphoma Kinase Acts in the <i>Drosophila</i> Mushroom Body to Negatively Regulate Sleep. <i>PLoS Genetics</i> , 2015, 11, e1005611.	1.5	29
64	An ecdysone-responsive nuclear receptor regulates circadian rhythms in <i>Drosophila</i> . <i>Nature Communications</i> , 2014, 5, 5697.	5.8	49
65	Monoamines and sleep in <i>Drosophila</i> .. <i>Behavioral Neuroscience</i> , 2014, 128, 264-272.	0.6	64
66	Identification of a Circadian Output Circuit for Rest:Activity Rhythms in <i>Drosophila</i> . <i>Cell</i> , 2014, 157, 689-701.	13.5	201
67	WIDE AWAKE Mediates the Circadian Timing of Sleep Onset. <i>Neuron</i> , 2014, 82, 151-166.	3.8	128
68	A Critical Period of Sleep for Development of Courtship Circuitry and Behavior in <i>Drosophila</i> . <i>Science</i> , 2014, 344, 269-274.	6.0	153
69	Speed control: cogs and gears that drive the circadian clock. <i>Trends in Neurosciences</i> , 2012, 35, 574-585.	4.2	78
70	Genetics of Sleep and Sleep Disorders. <i>Cell</i> , 2011, 146, 194-207.	13.5	345
71	The Circadian Clock Interacts with Metabolic Physiology to Influence Reproductive Fitness. <i>Cell Metabolism</i> , 2011, 13, 639-654.	7.2	149
72	Identification of a Neural Circuit that Underlies the Effects of Octopamine on Sleep:Wake Behavior. <i>Neuron</i> , 2010, 65, 670-681.	3.8	238

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73	Ac-ing the Clock. Neuron, 2008, 57, 8-10.	3.8	9
74	Regulation of Feeding and Metabolism by Neuronal and Peripheral Clocks in Drosophila. Cell Metabolism, 2008, 8, 289-300.	7.2	255
75	Hormonal Rhythms. , 2005, , 231-253.		2
76	Human Circadian Rhythms. , 2005, , 255-269.		3
77	Genetic and Molecular Approaches Used to Analyze Rhythms. , 2005, , 17-29.		0
78	Drosophila Melanogaster: A Model System for Molecular Chronobiology. , 2005, , 31-74.		4
79	Molecular Analysis of Circadian Rhythms: Nonmammalian Vertebrates. , 2005, , 75-92.		0
80	Genetic Basis for Circadian Rhythms in Mammals. , 2005, , 93-140.		2
81	Circadian Rhythms in Cyanobacteria. , 2005, , 141-170.		0
82	Physiological and Molecular Characteristics of Plant Circadian Clocks. , 2005, , 185-209.		0
83	Multiple Oscillators. , 2005, , 211-229.		0
84	Molecular Analysis of Circadian Rhythms in Neurospora. , 2005, , 171-184.		0
85	General Concepts. , 2005, , 1-16.		0
86	Circadian Control of Eclosion. Current Biology, 2003, 13, 526-533.	1.8	144
87	Molecular Components of the Circadian System in Drosophila. Annual Review of Physiology, 2001, 63, 729-755.	5.6	199
88	Regulation of the cycling of timeless (tim) RNA. Journal of Neurobiology, 2001, 47, 161-175.	3.7	32
89	A Circadian Output in Drosophila Mediated by Neurofibromatosis-1 and Ras/MAPK. Science, 2001, 293, 2251-2256.	6.0	205
90	Rest in Drosophila Is a Sleep-like State. Neuron, 2000, 25, 129-138.	3.8	876

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91	Conserved Regions of the timeless (tim) Clock Gene in Drosophila Analyzed Through Phylogenetic and Functional Studies. Genetics, 1998, 148, 815-825.	1.2	73
92	Loss of circadian behavioral rhythms and per RNA oscillations in the Drosophila mutant timeless. Science, 1994, 263, 1603-1606.	6.0	593
93	The Kinetics and (Dys)kinetics of Cancer Chronotherapy. Cancer Research, 0, , OF1-OF4.	0.4	1