

Amita Sehgal

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

7,320
citations

76196

40
h-index

64668

79
g-index

104
all docs

104
docs citations

104
times ranked

5816
citing authors

#	ARTICLE	IF	CITATIONS
1	Rest in <i>Drosophila</i> Is a Sleep-like State. <i>Neuron</i> , 2000, 25, 129-138.	3.8	876
2	Loss of circadian behavioral rhythms and per RNA oscillations in the <i>Drosophila</i> mutant <i>timeless</i> . <i>Science</i> , 1994, 263, 1603-1606.	6.0	593
3	Genetics of Sleep and Sleep Disorders. <i>Cell</i> , 2011, 146, 194-207.	13.5	345
4	Circadian Rhythms and Sleep in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2017, 205, 1373-1397.	1.2	331
5	Regulation of Feeding and Metabolism by Neuronal and Peripheral Clocks in <i>Drosophila</i> . <i>Cell Metabolism</i> , 2008, 8, 289-300.	7.2	255
6	Circadian Rhythms, Sleep, and Disorders of Aging. <i>Trends in Endocrinology and Metabolism</i> , 2016, 27, 192-203.	3.1	247
7	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
8	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , 2017, 32, 380-393.	1.4	237
9	A Circadian Output in <i>Drosophila</i> Mediated by Neurofibromatosis-1 and Ras/MAPK. <i>Science</i> , 2001, 293, 2251-2256.	6.0	205
10	Identification of a Circadian Output Circuit for Rest:Activity Rhythms in <i>Drosophila</i> . <i>Cell</i> , 2014, 157, 689-701.	13.5	201
11	Molecular Components of the Circadian System in <i>Drosophila</i> . <i>Annual Review of Physiology</i> , 2001, 63, 729-755.	5.6	199
12	A Circadian Clock in the Blood-Brain Barrier Regulates Xenobiotic Efflux. <i>Cell</i> , 2018, 173, 130-139.e10.	13.5	162
13	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
14	The Circadian Clock Interacts with Metabolic Physiology to Influence Reproductive Fitness. <i>Cell Metabolism</i> , 2011, 13, 639-654.	7.2	149
15	Circadian Control of Eclosion. <i>Current Biology</i> , 2003, 13, 526-533.	1.8	144
16	Peripheral Circadian Clocks Mediate Dietary Restriction-Dependent Changes in Lifespan and Fat Metabolism in <i>Drosophila</i> . <i>Cell Metabolism</i> , 2016, 23, 143-154.	7.2	139
17	WIDE AWAKE Mediates the Circadian Timing of Sleep Onset. <i>Neuron</i> , 2014, 82, 151-166.	3.8	128
18	A sleep-inducing gene, <i>nemuri</i> , links sleep and immune function in <i>Drosophila</i> . <i>Science</i> , 2019, 363, 509-515.	6.0	128

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19	Oxalic acid and diacylglycerol 36:3 are cross-species markers of sleep debt. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2569-2574.	3.3	121
20	Regulation of the Blood–Brain Barrier by Circadian Rhythms and Sleep. Trends in Neurosciences, 2019, 42, 500-510.	4.2	121
21	Molecular Mechanisms of Sleep Homeostasis in Flies and Mammals. Cold Spring Harbor Perspectives in Biology, 2017, 9, a027730.	2.3	118
22	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
23	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
24	Ribosome profiling reveals an important role for translational control in circadian gene expression. Genome Research, 2015, 25, 1836-1847.	2.4	99
25	The <i>Drosophila</i> circuitry of sleep–wake regulation. Current Opinion in Neurobiology, 2017, 44, 243-250.	2.0	98
26	Speed control: cogs and gears that drive the circadian clock. Trends in Neurosciences, 2012, 35, 574-585.	4.2	78
27	Conserved Regions of the timeless (<i>tim</i>) Clock Gene in <i>Drosophila</i> Analyzed Through Phylogenetic and Functional Studies. Genetics, 1998, 148, 815-825.	1.2	73
28	<i>Drosophila</i> TIM Binds Importin β 1, and Acts as an Adapter to Transport PER to the Nucleus. PLoS Genetics, 2015, 11, e1004974.	1.5	72
29	Endocytosis at the <i>Drosophila</i> blood–brain barrier as a function for sleep. ELife, 2018, 7, .	2.8	72
30	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
31	A Peptidergic Circuit Links the Circadian Clock to Locomotor Activity. Current Biology, 2017, 27, 1915-1927.e5.	1.8	70
32	Caffeine promotes wakefulness via dopamine signaling in <i>Drosophila</i> . Scientific Reports, 2016, 6, 20938.	1.6	68
33	Monoamines and sleep in <i>Drosophila</i> .. Behavioral Neuroscience, 2014, 128, 264-272.	0.6	64
34	Glial Metabolic Rewiring Promotes Axon Regeneration and Functional Recovery in the Central Nervous System. Cell Metabolism, 2020, 32, 767-785.e7.	7.2	64
35	A circadian clock regulates efflux by the blood-brain barrier in mice and human cells. Nature Communications, 2021, 12, 617.	5.8	63
36	Neural clocks and Neuropeptide F/Y regulate circadian gene expression in a peripheral metabolic tissue. ELife, 2016, 5, .	2.8	61

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37	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
38	Sleep deprivation suppresses aggression in <i>Drosophila</i> . <i>ELife</i> , 2015, 4, e07643.	2.8	55
39	Circadian Rhythms, Disease and Chronotherapy. <i>Journal of Biological Rhythms</i> , 2021, 36, 503-531.	1.4	55
40	Context-specific comparison of sleep acquisition systems in <i>Drosophila</i> . <i>Biology Open</i> , 2015, 4, 1558-1568.	0.6	54
41	Availability of food determines the need for sleep in memory consolidation. <i>Nature</i> , 2021, 589, 582-585.	13.7	51
42	An ecdysone-responsive nuclear receptor regulates circadian rhythms in <i>Drosophila</i> . <i>Nature Communications</i> , 2014, 5, 5697.	5.8	49
43	A Conserved Circadian Function for the Neurofibromatosis 1 Gene. <i>Cell Reports</i> , 2018, 22, 3416-3426.	2.9	42
44	Physiology Flies with Time. <i>Cell</i> , 2017, 171, 1232-1235.	13.5	40
45	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
46	KPNB1 mediates PER/CRY nuclear translocation and circadian clock function. <i>ELife</i> , 2015, 4, .	2.8	37
47	Changes in Female <i>Drosophila</i> Sleep following Mating Are Mediated by SPSN-SAG Neurons. <i>Journal of Biological Rhythms</i> , 2016, 31, 551-567.	1.4	37
48	Circadian and Sleep Metabolomics Across Species. <i>Journal of Molecular Biology</i> , 2020, 432, 3578-3610.	2.0	34
49	<i>Drosophila</i> Nipped-B Mutants Model Cornelia de Lange Syndrome in Growth and Behavior. <i>PLoS Genetics</i> , 2015, 11, e1005655.	1.5	33
50	Regulation of the cycling of timeless (<i>tim</i>) RNA. <i>Journal of Neurobiology</i> , 2001, 47, 161-175.	3.7	32
51	The Glial Perspective on Sleep and Circadian Rhythms. <i>Annual Review of Neuroscience</i> , 2020, 43, 119-140.	5.0	31
52	<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
53	Spliceosome factors target timeless (<i>tim</i>) mRNA to control clock protein accumulation and circadian behavior in <i>Drosophila</i> . <i>ELife</i> , 2018, 7, .	2.8	30
54	Independent Effects of $\hat{1}^3$ -Aminobutyric Acid Transaminase (GABAT) on Metabolic and Sleep Homeostasis. <i>Journal of Biological Chemistry</i> , 2015, 290, 20407-20416.	1.6	29

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55	Anaplastic Lymphoma Kinase Acts in the Drosophila Mushroom Body to Negatively Regulate Sleep. PLoS Genetics, 2015, 11, e1005611.	1.5	29
56	Genetic Dissociation of Daily Sleep and Sleep Following Thermogenetic Sleep Deprivation in <i>Drosophila</i> . Sleep, 2016, 39, 1083-1095.	0.6	26
57	Wolbachia affects sleep behavior in <i>Drosophila melanogaster</i> . Journal of Insect Physiology, 2018, 107, 81-88.	0.9	24
58	Circadian- and Light-driven Metabolic Rhythms in <i>Drosophila melanogaster</i> . Journal of Biological Rhythms, 2018, 33, 126-136.	1.4	24
59	AANAT1 functions in astrocytes to regulate sleep homeostasis. ELife, 2020, 9, .	2.8	24
60	The NRON complex controls circadian clock function through regulated PER and CRY nuclear translocation. Scientific Reports, 2019, 9, 11883.	1.6	23
61	Short and long sleeping mutants reveal links between sleep and macroautophagy. ELife, 2021, 10, .	2.8	22
62	Asymmetric vasopressin signaling spatially organizes the master circadian clock. Journal of Comparative Neurology, 2018, 526, 2048-2067.	0.9	19
63	Heating and cooling the <i>Drosophila melanogaster</i> clock. Current Opinion in Insect Science, 2015, 7, 71-75.	2.2	17
64	Loss of circadian protection against influenza infection in adult mice exposed to hyperoxia as neonates. ELife, 2021, 10, .	2.8	15
65	Splicing the Clock to Maintain and Entrain Circadian Rhythms. Journal of Biological Rhythms, 2019, 34, 584-595.	1.4	13
66	Anandamide Metabolites Protect against Seizures through the TRP Channel Water Witch in <i>Drosophila melanogaster</i> . Cell Reports, 2020, 31, 107710.	2.9	12
67	Ac-ing the Clock. Neuron, 2008, 57, 8-10.	3.8	9
68	Manipulations of the olfactory circuit highlight the role of sensory stimulation in regulating sleep amount. Sleep, 2021, 44, .	0.6	9
69	Temperature Oscillations Drive Cycles in the Activity of MMP-2,9 Secreted by a Human Trabecular Meshwork Cell Line. Investigative Ophthalmology and Visual Science, 2015, 56, 1396-1405.	3.3	7
70	<i>Hugin</i> neurons provide a link between sleep homeostat and circadian clock neurons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
71	Cold Temperatures Fire up Circadian Neurons. Cell Metabolism, 2018, 27, 951-953.	7.2	5
72	Misregulation of <i>Drosophila</i> Myc Disrupts Circadian Behavior and Metabolism. Cell Reports, 2019, 29, 1778-1788.e4.	2.9	5

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73	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
74	<i>Drosophila Melanogaster</i> : A Model System for Molecular Chronobiology. , 2005, , 31-74.		4
75	Circadian and Sleep Circuits Ring Together. <i>Neuron</i> , 2018, 100, 514-516.	3.8	4
76	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
77	Human Circadian Rhythms. , 2005, , 255-269.		3
78	Genetic Mechanisms Underlying Sleep. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2018, 83, 57-61.	2.0	3
79	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
80	Hormonal Rhythms. , 2005, , 231-253.		2
81	Genetic Basis for Circadian Rhythms in Mammals. , 2005, , 93-140.		2
82	Tumors set time. <i>Science</i> , 2016, 353, 987-988.	6.0	2
83	The 2020 Pittendrigh/Aschoff Lecture: My Circadian Journey. <i>Journal of Biological Rhythms</i> , 2021, 36, 84-96.	1.4	1
84	Monitoring Electrical Activity in <i>Drosophila</i> Circadian Output Neurons. <i>Methods in Molecular Biology</i> , 2021, 2130, 221-232.	0.4	1
85	The Kinetics and (Dys)kinetics of Cancer Chronotherapy. <i>Cancer Research</i> , 0, , OF1-OF4.	0.4	1
86	Genetic and Molecular Approaches Used to Analyze Rhythms. , 2005, , 17-29.		0
87	Molecular Analysis of Circadian Rhythms: Nonmammalian Vertebrates. , 2005, , 75-92.		0
88	Circadian Rhythms in Cyanobacteria. , 2005, , 141-170.		0
89	Physiological and Molecular Characteristics of Plant Circadian Clocks. , 2005, , 185-209.		0
90	Multiple Oscillators. , 2005, , 211-229.		0

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91	Molecular Analysis of Circadian Rhythms in Neurospora. , 2005, , 171-184.		0
92	General Concepts. , 2005, , 1-16.		0
93	Structural Plasticity Analysis of Drosophila Sleep Circuit After Thermogenetic Sleep Deprivation. FASEB Journal, 2018, 32, lb538.	0.2	0