Alex C Keene

List of Publications by Year
in descending order

88 papers	5,583 citations	94381 37 h-index	98753 67 g-index
127 all docs	127 docs citations	127 times ranked	4579 citing authors

#	Article	IF	Citations
1	Hybridization underlies localized trait evolution in cavefish. IScience, 2022, 25, 103778.	1.9	17
2	Kinematic analysis of social interactions deconstructs the evolved loss of schooling behavior in cavefish. PLoS ONE, 2022, 17, e0265894.	1.1	12
3	Measuring metabolic rate in single flies during sleep and waking states via indirect calorimetry. Journal of Neuroscience Methods, 2022, 376, 109606.	1.3	9
4	Expression of a constitutively active insulin receptor in Drosulfakinin (Dsk) neurons regulates metabolism and sleep in Drosophila. Biochemistry and Biophysics Reports, 2022, 30, 101280.	0.7	2
5	CaveCrawler: an interactive analysis suite for cavefish bioinformatics. G3: Genes, Genomes, Genetics, 2022, 12, .	0.8	0
6	A chromosome-level genome of Astyanax mexicanus surface fish for comparing population-specific genetic differences contributing to trait evolution. Nature Communications, 2021, 12, 1447.	5.8	60
7	Diversity in restâ€“activity patterns among Lake Malawi cichlid fishes suggests a novel axis of habitat partitioning. Journal of Experimental Biology, 2021, 224, .	0.8	9
8	Ir56d-dependent fatty acid responses in Drosophila uncover taste discrimination between different classes of fatty acids. ELife, 2021, 10, .	2.8	22
9	A screen for sleep and starvation resistance identifies a wake-promoting role for the auxiliary channel unc79. G3: Genes, Genomes, Genetics, 2021, 11, .	0.8	2
10	Neurofibromin regulates metabolic rate via neuronal mechanisms in Drosophila. Nature Communications, 2021, 12, 4285.	5.8	12
11	Repeated evolution of circadian clock dysregulation in cavefish populations. PLoS Genetics, 2021, 17, e1009642.	1.5	29
12	Pleiotropic function of the oca2 gene underlies the evolution of sleep loss and albinism in cavefish. Current Biology, 2021, 31, 3694-3701.e4.	1.8	30
13	Flies sense the world while sleeping. Nature, 2021, 598, 423-424.	13.7	1
14	The Regulation of Drosophila Sleep. Current Biology, 2021, 31, R38-R49.	1.8	104
15	Dietary fatty acids promote sleep through a tasteâ€independent mechanism. Genes, Brain and Behavior, 2020, 19, e12629.	1.1	9
16	Evolution of the acoustic startle response of Mexican cavefish. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 474-485.	0.6	12
17	Analysis of stress responses in Astyanax larvae reveals heterogeneity among different populations. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 486-496.	0.6	3
18	Cavefish brain atlases reveal functional and anatomical convergence across independently evolved populations. Science Advances, 2020, 6, .	4.7	41

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19	Aggression Is Induced by Resource Limitation in the Monarch Caterpillar. IScience, 2020, 23, 101791.	1.9	9
20	Sleep Regulates Glial Plasticity and Expression of the Engulfment Receptor Draper Following Neural Injury. Current Biology, 2020, 30, 1092-1101.e3.	1.8	41
21	Drosophila insulin-like peptide 2 mediates dietary regulation of sleep intensity. PLoS Genetics, 2020, 16, e1008270.	1.5	39
22	Dark world rises: The emergence of cavefish as a model for the study of evolution, development, behavior, and disease. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 397-404.	0.6	31
23	Repeated evolution of eye loss in Mexican cavefish: Evidence of similar developmental mechanisms in independently evolved populations. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 423-437.	0.6	16
24	Unique transcriptional signatures of sleep loss across independently evolved cavefish populations. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2020, 334, 497-510.	0.6	11
25	Drosophila insulin-like peptide 2 mediates dietary regulation of sleep intensity. , 2020, 16, e1008270.		0
26	Drosophila insulin-like peptide 2 mediates dietary regulation of sleep intensity. , 2020, 16, e1008270.		0
27	Drosophila insulin-like peptide 2 mediates dietary regulation of sleep intensity. , 2020, 16, e1008270.		0
28	Drosophila insulin-like peptide 2 mediates dietary regulation of sleep intensity. , 2020, 16, e1008270.		0
29	An Adult Brain Atlas Reveals Broad Neuroanatomical Changes in Independently Evolved Populations of Mexican Cavefish. Frontiers in Neuroanatomy, 2019, 13, 88.	0.9	36
30	Manipulation of Gene Function in Mexican Cavefish. Journal of Visualized Experiments, 2019, , .	0.2	41
31	Stable transgenesis in <scp>Astyanax mexicanus</scp> using the Tol2 transposase system. Developmental Dynamics, 2019, 248, 679-687.	0.8	57
32	Automated Measurements of Sleep and Locomotor Activity in Mexican Cavefish. Journal of Visualized Experiments, 2019, , .	0.2	9
33	A single pair of leucokinin neurons are modulated by feeding state and regulate sleepâ€“metabolism interactions. PLoS Biology, 2019, 17, e2006409.	2.6	71
34	Nonrandom RNAseq gene expression associated with RNAlater and flash freezing storage methods. Molecular Ecology Resources, 2019, 19, 456-464.	2.2	31
35	Starvation resistance is associated with developmentally specified changes in sleep, feeding and metabolic rate. Journal of Experimental Biology, 2019, 222, .	0.8	14
36	Variation in sleep and metabolic function is associated with latitude and average temperature in Drosophila melanogaster. Ecology and Evolution, 2018, 8, 4084-4097.	0.8	21

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37	Sleep: Helicon Cells Charge the Circuit. Current Biology, 2018, 28, R317-R319.	1.8	0
38	Ade2 Functions in the Drosophila Fat Body To Promote Sleep. G3: Genes, Genomes, Genetics, 2018, 8, 3385-3395.	0.8	13
39	The Taurine Transporter Eaat2 Functions in Ensheathing Glia to Modulate Sleep and Metabolic Rate. Current Biology, 2018, 28, 3700-3708.e4.	1.8	48
40	Modulation of Drosophila post-feeding physiology and behavior by the neuropeptide leucokinin. PLoS Genetics, 2018, 14, e1007767.	1.5	60
41	The role of gene flow in rapid and repeated evolution of caveâ€related traits in Mexican tetra, Astyanax mexicanus. Molecular Ecology, 2018, 27, 4397-4416.	2.0	160
42	Convergence on reduced stress behavior in the Mexican blind cavefish. Developmental Biology, 2018, 441, 319-327.	0.9	52
43	Hypocretin underlies the evolution of sleep loss in the Mexican cavefish. ELife, 2018, 7, .	2.8	102
44	Evolutionary shift towards lateral line dependent prey capture behavior in the blind Mexican cavefish. Developmental Biology, 2018, 441, 328-337.	0.9	64
45	The origins and evolution of sleep. Journal of Experimental Biology, 2018, 221, .	0.8	106
46	The lateral line confers evolutionarily derived sleep loss in the Mexican cavefish. Journal of Experimental Biology, 2017, 220, 284-293.	0.8	64
47	Sleep-Dependent Modulation of Metabolic Rate in Drosophila. Sleep, 2017, 40, .	0.6	54
48	To rebound or not to rebound. ELife, 2017, 6, .	2.8	1
49	A subset of sweet-sensing neurons identified by IR56d are necessary and sufficient for fatty acid taste. PLoS Genetics, 2017, 13, e1007059.	1.5	83
50	Postprandial sleep mechanics in Drosophila. ELife, 2016, 5, .	2.8	85
51	Gustatory processing and taste memory inDrosophila. Journal of Neurogenetics, 2016, 30, 112-121.	0.6	24
52	translin Is Required for Metabolic Regulation of Sleep. Current Biology, 2016, 26, 972-980.	1.8	64
53	Context-specific comparison of sleep acquisition systems in Drosophila. Biology Open, 2015, 4, 1558-1568.	0.6	54
54	A Dopamine-Modulated Neural Circuit Regulating Aversive Taste Memory in Drosophila. Current Biology, 2015, 25, 1535-1541.	1.8	82

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55	Distinct genetic architecture underlies the emergence of sleep loss and prey-seeking behavior in the Mexican cavefish. BMC Biology, 2015, 13, 15.	1.7	93
56	Neurodegeneration: Paying It Off withÂSleep. Current Biology, 2015, 25, R234-R236.	1.8	7
57	Identification of Neurons with a Privileged Role in Sleep Homeostasis in Drosophila melanogaster. Current Biology, 2015, 25, 2928-2938.	1.8	117
58	Genetic dissection of sleepâ€“metabolism interactions in the fruit fly. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2015, 201, 869-877.	0.7	47
59	Enhanced Sleep Is an Evolutionarily Adaptive Response to Starvation Stress in Drosophila. PLoS ONE, 2015, 10, e0131275.	1.1	39
60	The cavefish genome reveals candidate genes for eye loss. Nature Communications, 2014, 5, 5307.	5.8	256
61	Development: Better Sleep On It, Children. Current Biology, 2014, 24, R569-R571.	1.8	0
62	Altered regulation of sleep and feeding contribute to starvation resistance in Drosophila. Journal of Experimental Biology, 2014, 217, 3122-32.	0.8	62
63	Drosophila Fatty Acid Taste Signals through the PLC Pathway in Sugar-Sensing Neurons. PLoS Genetics, 2013, 9, e1003710.	1.5	85
64	Molecular Mechanisms of Age-Related Sleep Loss in the Fruit Fly - A Mini-Review. Gerontology, 2013, 59, 334-339.	1.4	17
65	Î²-Adrenergic Signaling Regulates Evolutionarily Derived Sleep Loss in the Mexican Cavefish. Brain, Behavior and Evolution, 2012, 80, 233-243.	0.9	52
66	Dopamine: On the Threshold of Sleep. Current Biology, 2012, 22, R949-R951.	1.8	4
67	Seeing the light: photobehavior in fruit fly larvae. Trends in Neurosciences, 2012, 35, 104-110.	4.2	60
68	Mio/dChREBP coordinately increases fat mass by regulating lipid synthesis and feeding behavior in Drosophila. Biochemical and Biophysical Research Communications, 2012, 426, 43-48.	1.0	36
69	Optogenetic induction of aversive taste memory. Neuroscience, 2012, 222, 173-180.	1.1	53
70	TrpA1 Regulates Thermal Nociception in Drosophila. PLoS ONE, 2011, 6, e24343.	1.1	140
71	Evolutionary Convergence on Sleep Loss in Cavefish Populations. Current Biology, 2011, 21, 671-676.	1.8	210
72	Taste-independent detection of the caloric content of sugar in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11644-11649.	3.3	148

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73	Distinct Visual Pathways MediateDrosophilaLarval Light Avoidance and Circadian Clock Entrainment. Journal of Neuroscience, 2011, 31, 6527-6534.	1.7	79
74	Clock and cycle Limit Starvation-Induced Sleep Loss in Drosophila. Current Biology, 2010, 20, 1209-1215.	1.8	211
75	A Global In Vivo Drosophila RNAi Screen Identifies NOT3 as a Conserved Regulator of Heart Function. Cell, 2010, 141, 142-153.	13.5	199
76	A Genome-wide Drosophila Screen for Heat Nociception Identifies Î±2Î´3 as an Evolutionarily Conserved Pain Gene. Cell, 2010, 143, 628-638.	13.5	283
77	The sleep-feeding conflict: Understanding behavioral integration through genetic analysis in Drosophila. Aging, 2010, 2, 519-522.	1.4	19
78	Study of small mammal populations within two Barn owl corridors at Folly Farm. Bioscience Horizons, 2009, 2, 155-163.	0.6	0
79	Sequential Use of Mushroom Body Neuron Subsets during Drosophila Odor Memory Processing. Neuron, 2007, 53, 103-115.	3.8	355
80	Drosophila olfactory memory: single genes to complex neural circuits. Nature Reviews Neuroscience, 2007, 8, 341-354.	4.9	353
81	Drosophila Dorsal Paired Medial Neurons Provide a General Mechanism for Memory Consolidation. Current Biology, 2006, 16, 1524-1530.	1.8	100
82	Drosophila Memory: Dopamine Signals Punishment?. Current Biology, 2005, 15, R932-R934.	1.8	18
83	Drosophila DPM Neurons Form a Delayed and Branch-Specific Memory Trace after Olfactory Classical Conditioning. Cell, 2005, 123, 945-957.	13.5	134
84	Diverse Odor-Conditioned Memories Require Uniquely Timed Dorsal Paired Medial Neuron Output. Neuron, 2004, 44, 521-533.	3.8	120
85	Selective silencing by RNAi of a dominant allele that causes amyotrophic lateral sclerosis. Aging Cell, 2003, 2, 209-217.	3.0	170
86	Forebrain sites of NPY action on estrous behavior in Syrian hamsters. Physiology and Behavior, 2003, 78, 711-716.	1.0	19
87	What Can a Blind Fish Teach Us About Sleep?. Frontiers for Young Minds, 0, 7, .	0.8	1
88	Evolutionary convergence of a neural mechanism in the cavefish lateral line system. ELife, 0, 11, .	2.8	5