Lior Appelbaum

List of Publications by Year
in descending order

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46 papers	2,678 citations	218677 26 h-index	233421 45 g-index
50 all docs	50 docs citations	50 times ranked	2884 citing authors

#	Article	IF	Citations
1	Characterization of Sleep in Zebrafish and Insomnia in Hypocretin Receptor Mutants. PLoS Biology, 2007, 5, e277.	5.6	328
2	Light-Responsive Cryptochromes from a Simple Multicellular Animal, the Coral Acropora millepora. Science, 2007, 318, 467-470.	12.6	236
3	Neuronal Mechanisms for Sleep/Wake Regulation and Modulatory Drive. Neuropsychopharmacology, 2018, 43, 937-952.	5.4	172
4	Sleepâ€“wake regulation and hypocretinâ€“melatonin interaction in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21942-21947.	7.1	160
5	Circadian and Homeostatic Regulation of Structural Synaptic Plasticity in Hypocretin Neurons. Neuron, 2010, 68, 87-98.	8.1	154
6	Synaptic plasticity in sleep: learning, homeostasis and disease. Trends in Neurosciences, 2011, 34, 452-463.	8.6	143
7	Light Directs Zebrafish period2 Expression via Conserved D and E Boxes. PLoS Biology, 2009, 7, e1000223.	5.6	112
8	Regulation of Hypocretin (Orexin) Expression in Embryonic Zebrafish. Journal of Biological Chemistry, 2006, 281, 29753-29761.	3.4	106
9	Sleep increases chromosome dynamics to enable reduction of accumulating DNA damage in single neurons. Nature Communications, 2019, 10, 895.	12.8	100
10	Genetic Ablation of Hypocretin Neurons Alters Behavioral State Transitions in Zebrafish. Journal of Neuroscience, 2012, 32, 12961-12972.	3.6	93
11	Altered Behavioral Performance and Live Imaging of Circuit-Specific Neural Deficiencies in a Zebrafish Model for Psychomotor Retardation. PLoS Genetics, 2014, 10, e1004615.	3.5	76
12	Fmrp Interacts with Adar and Regulates RNA Editing, Synaptic Density and Locomotor Activity in Zebrafish. PLoS Genetics, 2015, 11, e1005702.	3.5	76
13	Circadian clocks, rhythmic synaptic plasticity and the sleep-wake cycle in zebrafish. Frontiers in Neural Circuits, 2013, 7, 9.	2.8	66
14	Zebrafish as a Model for Monocarboxyl Transporter 8-Deficiency. Journal of Biological Chemistry, 2013, 288, 169-180.	3.4	64
15	Hypocretin neuron-specific transcriptome profiling identifies the sleep modulator Kcnh4a. ELife, 2015, 4, e08638.	6.0	54
16	Zebrafish arylalkylamine-N-acetyltransferase genes â€“ targets for regulation of the circadian clock. Journal of Molecular Endocrinology, 2006, 36, 337-347.	2.5	52
17	Homeobox-Clock Protein Interaction in Zebrafish. Journal of Biological Chemistry, 2005, 280, 11544-11551.	3.4	51
18	Comparative expression of p2x receptors and ecto-nucleoside triphosphate diphosphohydrolase 3 in hypocretin and sensory neurons in zebrafish. Brain Research, 2007, 1174, 66-75.	2.2	49

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19	Zebrafish Serotonin-N-Acetyltransferase-2 Gene Regulation: Pineal-Restrictive Downstream Module Contains a Functional E-Box and Three Photoreceptor Conserved Elements. Molecular Endocrinology, 2004, 18, 1210-1221.	3.7	46
20	Pharmacological and BBB-targeted genetic therapies for thyroid hormone-dependent hypomyelination. DMM Disease Models and Mechanisms, 2016, 9, 1339-1348.	2.4	46
21	Cavefish brain atlases reveal functional and anatomical convergence across independently evolved populations. Science Advances, 2020, 6, .	10.3	41
22	Parp1 promotes sleep, which enhances DNA repair in neurons. Molecular Cell, 2021, 81, 4979-4993.e7.	9.7	40
23	Profiling molecular and behavioral circadian rhythms in the non-symbiotic sea anemone Nematostella vectensis. Scientific Reports, 2015, 5, 11418.	3.3	36
24	Neuronal noise as an origin of sleep arousals and its role in sudden infant death syndrome. Science Advances, 2018, 4, eaar6277.	10.3	34
25	Mechanism of pineal-specific gene expression: The role of E-box and photoreceptor conserved elements. Molecular and Cellular Endocrinology, 2006, 252, 27-33.	3.2	31
26	Modeling sleep and neuropsychiatric disorders in zebrafish. Current Opinion in Neurobiology, 2017, 44, 89-93.	4.2	28
27	Transcriptional Regulation of Arylalkylamine-N-Acetyltransferase-2 Gene in the Pineal Gland of the Gilthead Seabream. Journal of Neuroendocrinology, 2007, 19, 46-53.	2.6	27
28	The Hypocretin/Orexin Neuronal Networks in Zebrafish. Current Topics in Behavioral Neurosciences, 2016, 33, 75-92.	1.7	26
29	Systematic identification of A-to-I RNA editing in zebrafish development and adult organs. Nucleic Acids Research, 2021, 49, 4325-4337.	14.5	21
30	Speciation and the establishment of zonation in an intertidal barnacle: specific settlement vs. selection*. Molecular Ecology, 2002, 11, 1731-1737.	3.9	20
31	Hypothalamic leptinâ€neurotensinâ€hypocretin neuronal networks in zebrafish. Journal of Comparative Neurology, 2015, 523, 831-848.	1.6	20
32	Zebrafish â€“ An emerging model to explore thyroid hormone transporters and psychomotor retardation. Molecular and Cellular Endocrinology, 2017, 459, 53-58.	3.2	19
33	Reduced synaptic density and deficient locomotor response in neuronal activityâ€regulated pentraxin 2a mutant zebrafish. FASEB Journal, 2015, 29, 1220-1234.	0.5	18
34	Sleep-Dependent Structural Synaptic Plasticity of Inhibitory Synapses in the Dendrites of Hypocretin/Orexin Neurons. Molecular Neurobiology, 2017, 54, 6581-6597.	4.0	18
35	Hunger Potentiates the Habenular Winner Pathway for Social Conflict by Orexin-Promoted Biased Alternative Splicing of the AMPA Receptor Gene. Cell Reports, 2020, 31, 107790.	6.4	18
36	Heterogeneity of Hypocretin/Orexin Neurons. Frontiers of Neurology and Neuroscience, 2021, 45, 61-74.	2.8	17

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37	Fast Neurotransmission Related Genes Are Expressed in Non Nervous Endoderm in the Sea Anemone Nematostella vectensis. PLoS ONE, 2014, 9, e93832.	2.5	16
38	Splice-specific deficiency of the PTSD-associated gene PAC1 leads to a paradoxical age-dependent stress behavior. Scientific Reports, 2020, 10, 9559.	3.3	14
39	Neural Alterations and Hyperactivity of the Hypothalamicâ€“Pituitaryâ€“Thyroid Axis in Oatp1c1 Deficiency. Thyroid, 2020, 30, 161-174.	4.5	13
40	Gas2l3 is essential for brain morphogenesis and development. Developmental Biology, 2014, 394, 305-313.	2.0	12
41	Neurotensin Enhances Locomotor Activity and Arousal and Inhibits Melanin-Concentrating Hormone Signaling. Neuroendocrinology, 2020, 110, 35-49.	2.5	5
42	Flatfoot in Africa, the cirripedeChthamalusin the west Indian Ocean. PeerJ, 2021, 9, e11710.	2.0	5
43	Thyroid Hormones Regulate Goblet Cell Differentiation and Fgf19-Fgfr4 Signaling. Endocrinology, 2021, 162, .	2.8	4
44	Genetic and Neurological Deficiencies in the Visual System of mct8 Mutant Zebrafish. International Journal of Molecular Sciences, 2022, 23, 2464.	4.1	3
45	A Zebrafish Model for a Rare Genetic Disease Reveals a Conserved Role for FBXL3 in the Circadian Clock System. International Journal of Molecular Sciences, 2022, 23, 2373.	4.1	3
46	Behavioral criteria and techniques to define sleep in zebrafish. , 2020, , 141-153.		1