Akira Muto

List of Publications by Year
in descending order

31 papers	2,324 citations	331670 21 h-index	454955 30 g-index
33 all docs	33 docs citations	33 times ranked	2736 citing authors

#	Article	IF	Citations
1	Forward Genetic Analysis of Visual Behavior in Zebrafish. PLoS Genetics, 2005, 1, e66.	3.5	263
2	Real-Time Visualization of Neuronal Activity during Perception. Current Biology, 2013, 23, 307-311.	3.9	240
3	The Xenopus IP3 receptor: Structure, function, and localization in oocytes and eggs. Cell, 1993, 73, 555-570.	28.9	220
4	Genetic visualization with an improved GCaMP calcium indicator reveals spatiotemporal activation of the spinal motor neurons in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5425-5430.	7.1	181
5	zTrap: zebrafish gene trap and enhancer trap database. BMC Developmental Biology, 2010, 10, 105.	2.1	147
6	Entrained rhythmic activities of neuronal ensembles as perceptual memory of time interval. Nature, 2008, 456, 102-106.	27.8	129
7	Role of Inositol 1,4,5-Trisphosphate Receptor in Ventral Signaling in Xenopus Embryos. Science, 1997, 278, 1940-1943.	12.6	117
8	Identification of a neuronal population in the telencephalon essential for fear conditioning in zebrafish. BMC Biology, 2018, 16, 45.	3.8	111
9	Activation of the hypothalamic feeding centre upon visual prey detection. Nature Communications, 2017, 8, 15029.	12.8	98
10	Glia-neuron interactions underlie state transitions to generalized seizures. Nature Communications, 2019, 10, 3830.	12.8	98
11	Retinal network adaptation to bright light requires tyrosinase. Nature Neuroscience, 2004, 7, 1329-1336.	14.8	80
12	Endothelial Ca2+ oscillations reflect VEGFR signaling-regulated angiogenic capacity in vivo. ELife, 2015, 4, .	6.0	79
13	Behavioral Screening Assays in Zebrafish. Methods in Cell Biology, 2004, 77, 53-68.	1.1	78
14	Developmental Expression of the Inositol 1,4,5-Trisphosphate Receptor and Structural Changes in the Endoplasmic Reticulum during Oogenesis and Meiotic Maturation ofXenopus laevis. Developmental Biology, 1997, 182, 228-239.	2.0	67
15	Prey capture in zebrafish larvae serves as a model to study cognitive functions. Frontiers in Neural Circuits, 2013, 7, 110.	2.8	58
16	Intracellular targeting and homotetramer formation of a truncated inositol 1,4,5-trisphosphate receptorâ€“green fluorescent protein chimera in Xenopus laevis oocytes: evidence for the involvement of the transmembrane spanning domain in endoplasmic reticulum targeting and homotetramer complex formation. Biochemical Journal, 1997, 323, 273-280.	3.7	55
17	Zebrafish Cacna1fa is required for cone photoreceptor function and synaptic ribbon formation. Human Molecular Genetics, 2014, 23, 2981-2994.	2.9	35
18	Gq Pathway Desensitizes Chemotactic Receptor-induced Calcium Signaling via Inositol Trisphosphate Receptor Down-regulation. Journal of Biological Chemistry, 1995, 270, 4840-4844.	3.4	33

#	Article	IF	Citations
19	Developmental expression of the inositol 1,4,5-trisphosphate receptor and localization of inositol 1,4,5-trisphosphate during early embryogenesis in Xenopus laevis. Mechanisms of Development, 1997, 66, 157-168.	1.7	32
20	Imaging functional neural circuits in zebrafish with a new GCaMP and the Gal4FF-UAS system. Communicative and Integrative Biology, 2011, 4, 566-568.	1.4	29
21	Six6 and Six7 coordinately regulate expression of middle-wavelength opsins in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4651-4660.	7.1	29
22	Targeted expression of a chimeric channelrhodopsin in zebrafish under regulation of Gal4-UAS system. Neuroscience Research, 2013, 75, 69-75.	1.9	27
23	Glucocorticoid receptor activity regulates light adaptation in the zebrafish retina. Frontiers in Neural Circuits, 2013, 7, 145.	2.8	25
24	Imaging functional neural circuits in zebrafish with a new GCaMP and the Gal4FF-UAS system. Communicative and Integrative Biology, 2011, 4, 566-8.	1.4	24
25	RING finger protein 121 facilitates the degradation and membrane localization of voltage-gated sodium channels. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2859-2864.	7.1	22
26	Calcium Imaging of Neuronal Activity in Free-Swimming Larval Zebrafish. Methods in Molecular Biology, 2016, 1451, 333-341.	0.9	14
27	Activation of inositol 1,4,5-trisphosphate receptors induces transient changes in cell shape of fertilizedXenopus eggs. , 1998, 39, 201-208.		11
28	Connexin 39.9 Protein Is Necessary for Coordinated Activation of Slow-twitch Muscle and Normal Behavior in Zebrafish. Journal of Biological Chemistry, 2012, 287, 1080-1089.	3.4	11
29	Ablation of a Neuronal Population Using a Two-photon Laser and Its Assessment Using Calcium Imaging and Behavioral Recording in Zebrafish Larvae. Journal of Visualized Experiments, 2018, , .	0.3	6
30	EXPRESSION OF THE GREEN FLUORESCENT PROTEIN DERIVATIVE S65T IN <i>XENOPUS LAEVIS </i>OOCYTES . Biomedical Research, 1996, 17, 221-225.	0.9	2
31	[20] Expression of green fluorescent protein and inositol 1,4,5-triphosphate receptor in Xenopus laevis oocytes. Methods in Enzymology, 1999, 302, 225-233.	1.0	1