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	Glia-neuron interactions underlie state transitions to generalized seizures. Nature Communications, 2019, 10, 3830.	12.8	98
2	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
3	Identification of a neuronal population in the telencephalon essential for fear conditioning in zebrafish. BMC Biology, 2018, 16, 45.	3.8	111
4	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
5	Activation of the hypothalamic feeding centre upon visual prey detection. Nature Communications, 2017, 8, 15029.	12.8	98
6	Calcium Imaging of Neuronal Activity in Free-Swimming Larval Zebrafish. Methods in Molecular Biology, 2016, 1451, 333-341.	0.9	14
7	Endothelial Ca2+ oscillations reflect VEGFR signaling-regulated angiogenic capacity in vivo. ELife, 2015, 4, .	6.0	79
8	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
9	Zebrafish Cacna1fa is required for cone photoreceptor function and synaptic ribbon formation. Human Molecular Genetics, 2014, 23, 2981-2994.	2.9	35
10	Real-Time Visualization of Neuronal Activity during Perception. Current Biology, 2013, 23, 307-311.	3.9	240
11	Targeted expression of a chimeric channelrhodopsin in zebrafish under regulation of Gal4-UAS system. Neuroscience Research, 2013, 75, 69-75.	1.9	27
12	Prey capture in zebrafish larvae serves as a model to study cognitive functions. Frontiers in Neural Circuits, 2013, 7, 110.	2.8	58
13	Glucocorticoid receptor activity regulates light adaptation in the zebrafish retina. Frontiers in Neural Circuits, 2013, 7, 145.	2.8	25
14	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
15	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
16	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
17	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
18	zTrap: zebrafish gene trap and enhancer trap database. BMC Developmental Biology, 2010, 10, 105.	2.1	147

#	Article	IF	Citations
19	Entrained rhythmic activities of neuronal ensembles as perceptual memory of time interval. Nature, 2008, 456, 102-106.	27.8	129
20	Forward Genetic Analysis of Visual Behavior in Zebrafish. PLoS Genetics, 2005, 1, e66.	3.5	263
21	Behavioral Screening Assays in Zebrafish. Methods in Cell Biology, 2004, 77, 53-68.	1.1	78
22	Retinal network adaptation to bright light requires tyrosinase. Nature Neuroscience, 2004, 7, 1329-1336.	14.8	80
23	[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
24	Activation of inositol 1,4,5-trisphosphate receptors induces transient changes in cell shape of fertilizedXenopus eggs. , 1998, 39, 201-208.		11
25	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
26	Role of Inositol 1,4,5-Trisphosphate Receptor in Ventral Signaling in Xenopus Embryos. Science, 1997, 278, 1940-1943.	12.6	117
27	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
28	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
29	EXPRESSION OF THE GREEN FLUORESCENT PROTEIN DERIVATIVE S65T IN <i>XENOPUS LAEVIS </i>OOCYTES . Biomedical Research, 1996, 17, 221-225.	0.9	2
30	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
31	The Xenopus IP3 receptor: Structure, function, and localization in oocytes and eggs. Cell, 1993, 73, 555-570.	28.9	220