Asako Otomo

List of Publications by Year
in descending order

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Version: 2024-02-01

49 papers	2,125 citations	394286 19 h-index	315616 38 g-index
53 all docs	53 docs citations	53 times ranked	4648 citing authors

#	Article	IF	Citations
1	A gene encoding a putative GTPase regulator is mutated in familial amyotrophic lateral sclerosis 2. Nature Genetics, 2001, 29, 166-173.	9.4	635
2	Modeling sporadic ALS in iPSC-derived motor neurons identifies a potential therapeutic agent. Nature Medicine, 2018, 24, 1579-1589.	15.2	268
3	ALS2, a novel guanine nucleotide exchange factor for the small GTPase Rab5, is implicated in endosomal dynamics. Human Molecular Genetics, 2003, 12, 1671-1687.	1.4	220
4	Mice deficient in the Rab5 guanine nucleotide exchange factor ALS2/alsin exhibit age-dependent neurological deficits and altered endosome trafficking. Human Molecular Genetics, 2006, 15, 233-250.	1.4	121
5	Loss of ALS2/Alsin Exacerbates Motor Dysfunction in a SOD1H46R-Expressing Mouse ALS Model by Disturbing Endolysosomal Trafficking. PLoS ONE, 2010, 5, e9805.	1.1	100
6	The Rab5 Activator ALS2/alsin Acts as a Novel Rac1 Effector through Rac1-activated Endocytosis. Journal of Biological Chemistry, 2007, 282, 16599-16611.	1.6	79
7	Molecular and cellular function of ALS2/alsin: Implication of membrane dynamics in neuronal development and degeneration. Neurochemistry International, 2007, 51, 74-84.	1.9	76
8	Homo-oligomerization of ALS2 through Its Unique Carboxyl-terminal Regions Is Essential for the ALS2-associated Rab5 Guanine Nucleotide Exchange Activity and Its Regulatory Function on Endosome Trafficking. Journal of Biological Chemistry, 2004, 279, 38626-38635.	1.6	56
9	Dysregulation of the Autophagy-Endolysosomal System in Amyotrophic Lateral Sclerosis and Related Motor Neuron Diseases. Neurology Research International, 2012, 2012, 1-12.	0.5	54
10	Defective relocalization of ALS2/alsin missense mutants to Rac1-induced macropinosomes accounts for loss of their cellular function and leads to disturbed amphisome formation. FEBS Letters, 2011, 585, 730-736.	1.3	45
11	Functional links between SQSTM1 and ALS2 in the pathogenesis of ALS: cumulative impact on the protection against mutant SOD1-mediated motor dysfunction in mice. Human Molecular Genetics, 2016, 25, 3321-3340.	1.4	43
12	ALS2/alsin deficiency in neurons leads to mild defects in macropinocytosis and axonal growth. Biochemical and Biophysical Research Communications, 2008, 370, 87-92.	1.0	37
13	A dopamine receptor antagonist L-745,870 suppresses microglia activation in spinal cord and mitigates the progression in ALS model mice. Experimental Neurology, 2008, 211, 378-386.	2.0	36
14	ALS2CL, the novel protein highly homologous to the carboxy-terminal half of ALS2, binds to Rab5 and modulates endosome dynamics. FEBS Letters, 2004, 575, 64-70.	1.3	35
15	Systemic overexpression of SQSTM1/p62 accelerates disease onset in a SOD1H46R-expressing ALS mouse model. Molecular Brain, 2018, 11, 30.	1.3	31
16	cDNA cloning of a new member of the FTZ-F1 subfamily from a rainbow trout. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1395, 271-274.	2.4	29
17	Altered oligomeric states in pathogenic ALS2 variants associated with juvenile motor neuron diseases cause loss of ALS2-mediated endosomal function. Journal of Biological Chemistry, 2018, 293, 17135-17153.	1.6	26
18	ALS2CL, a novel ALS2-interactor, modulates ALS2-mediated endosome dynamics. Biochemical and Biophysical Research Communications, 2007, 354, 491-497.	1.0	24

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19	Different Human Copper-Zinc Superoxide Dismutase Mutants, SOD1G93A and SOD1H46R, Exert Distinct Harmful Effects on Gross Phenotype in Mice. PLoS ONE, 2012, 7, e33409.	1.1	23
20	GRP78 Suppresses Lipid Peroxidation and Promotes Cellular Antioxidant Levels in Glial Cells following Hydrogen Peroxide Exposure. PLoS ONE, 2014, 9, e86951.	1.1	21
21	Loss of glial fibrillary acidic protein marginally accelerates disease progression in a SOD1 transgenic mouse model of ALS. Neuroscience Research, 2011, 70, 321-329.	1.0	20
22	Alopecia areata susceptibility variant in MHC region impacts expressions of genes contributing to hair keratinization and is involved in hair loss. EBioMedicine, 2020, 57, 102810.	2.7	19
23	Identification and Characterization of Novel Members of the CREG Family, Putative Secreted Glycoproteins Expressed Specifically in Brain. Genomics, 2002, 80, 456-460.	1.3	18
24	Effects of Busulfan Sustained-release Emulsion on Depletion and Repopulation of Primordial Germ Cells in Early Chicken Embryos. Journal of Poultry Science, 2009, 46, 127-135.	0.7	18
25	Genetic background and gender effects on gross phenotypes in congenic lines of ALS2/alsin-deficient mice. Neuroscience Research, 2010, 68, 131-136.	1.0	14
26	Rostrocaudal Areal Patterning of Human PSC-Derived Cortical Neurons by FGF8 Signaling. ENeuro, 2018, 5, ENEURO.0368-17.2018.	0.9	11
27	Sexually dimorphic expression of Dmrt1 and Î³H2<scp>AX</scp> in germ stem cells during gonadal development in Xenopus laevis. FEBS Open Bio, 2016, 6, 276-284.	1.0	10
28	Efficient differentiation and polarization of primary cultured neurons on poly(lactic acid) scaffolds with microgrooved structures. Scientific Reports, 2020, 10, 6716.	1.6	8
29	Human PZP and common marmoset A2ML1 as pregnancy related proteins. Scientific Reports, 2020, 10, 5088.	1.6	8
30	ALS2, the small GTPase Rab17-interacting protein, regulates maturation and sorting of Rab17-associated endosomes. Biochemical and Biophysical Research Communications, 2020, 523, 908-915.	1.0	7
31	SQSTM1L341V variant that is linked to sporadic ALS exhibits impaired association with MAP1LC3 in cultured cells. ENeurologicalSci, 2021, 22, 100301.	0.5	6
32	The N-terminal intrinsically disordered region mediates intracellular localization and self-oligomerization of ALS2. Biochemical and Biophysical Research Communications, 2021, 569, 106-111.	1.0	6
33	LOWER SERUM LIPID LEVELS ARE RELATED TO RESPIRATORY IMPAIRMENT IN PATIENTS WITH ALS. Neurology, 2010, 74, 2027-2028.	1.5	5
34	PACT/PRKRA and p53 regulate transcriptional activity of DMRT1. Genetics and Molecular Biology, 2020, 43, e20190017.	0.6	5
35	High-throughput quantitative analysis of axonal transport in cultured neurons from SOD1H46R ALS mice by using a microfluidic device. Neuroscience Research, 2022, 174, 46-52.	1.0	3
36	Identification and Characterization of Novel Members of the CREG Family, Putative Secreted Glycoproteins Expressed Specifically in Brain. , 2002, 80, 456-456.		3

#	Article	IF	Citations
37	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. PLoS ONE, 2020, 15, e0234180.	1.1	2
38	An open-type microdevice to improve the quality of fluorescence labeling for axonal transport analysis in neurons. Biomicrofluidics, 2019, 13, 034104.	1.2	1
39	NATURAL HISTORY OF YOUNG-ADULT AMYOTROPHIC LATERAL SCLEROSIS. Neurology, 2009, 73, 648-650.	1.5	0
40	Altered oligomeric states in pathogenic ALS2 variants associated with juvenile motor neuron diseases cause loss of ALS2â€mediated endosomal function. FASEB Journal, 2020, 34, 1-1.	0.2	0
41	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
42	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
43	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
44	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
45	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
46	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
47	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
48	Monitoring the autophagy-endolysosomal system using monomeric Keima-fused MAP1LC3B. , 2020, 15, e0234180.		0
49	SQSTM1, a protective factor of SOD1-linked motor neuron disease, regulates the accumulation and distribution of ubiquitinated protein aggregates in neuron. Neurochemistry International, 2022, 158, 105364.	1.9	0