

# Asako Otomo

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

2,125  
citations

393982

19  
h-index

315357

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. <i>Nature Genetics</i> , 2001, 29, 166-173.	9.4	635
2	Modeling sporadic ALS in iPSC-derived motor neurons identifies a potential therapeutic agent. <i>Nature Medicine</i> , 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. <i>Human Molecular Genetics</i> , 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. <i>Human Molecular Genetics</i> , 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. <i>PLoS ONE</i> , 2010, 5, e9805.	1.1	100
6	The Rab5 Activator ALS2/alsin Acts as a Novel Rac1 Effector through Rac1-activated Endocytosis. <i>Journal of Biological Chemistry</i> , 2007, 282, 16599-16611.	1.6	79
7	Molecular and cellular function of ALS2/alsin: Implication of membrane dynamics in neuronal development and degeneration. <i>Neurochemistry International</i> , 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. <i>Journal of Biological Chemistry</i> , 2004, 279, 38626-38635.	1.6	56
9	Dysregulation of the Autophagy-Endolysosomal System in Amyotrophic Lateral Sclerosis and Related Motor Neuron Diseases. <i>Neurology Research International</i> , 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. <i>FEBS Letters</i> , 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. <i>Human Molecular Genetics</i> , 2016, 25, 3321-3340.	1.4	43
12	ALS2/alsin deficiency in neurons leads to mild defects in macropinocytosis and axonal growth. <i>Biochemical and Biophysical Research Communications</i> , 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. <i>Experimental Neurology</i> , 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. <i>FEBS Letters</i> , 2004, 575, 64-70.	1.3	35
15	Systemic overexpression of SQSTM1/p62 accelerates disease onset in a SOD1H46R-expressing ALS mouse model. <i>Molecular Brain</i> , 2018, 11, 30.	1.3	31
16	cDNA cloning of a new member of the FTZ-F1 subfamily from a rainbow trout. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 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. <i>Journal of Biological Chemistry</i> , 2018, 293, 17135-17153.	1.6	26
18	ALS2CL, a novel ALS2-interactor, modulates ALS2-mediated endosome dynamics. <i>Biochemical and Biophysical Research Communications</i> , 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. <i>PLoS ONE</i> , 2012, 7, e33409.	1.1	23
20	GRP78 Suppresses Lipid Peroxidation and Promotes Cellular Antioxidant Levels in Glial Cells following Hydrogen Peroxide Exposure. <i>PLoS ONE</i> , 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. <i>Neuroscience Research</i> , 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. <i>EBioMedicine</i> , 2020, 57, 102810.	2.7	19
23	Identification and Characterization of Novel Members of the CREG Family, Putative Secreted Glycoproteins Expressed Specifically in Brain. <i>Genomics</i> , 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. <i>Journal of Poultry Science</i> , 2009, 46, 127-135.	0.7	18
25	Genetic background and gender effects on gross phenotypes in congenic lines of ALS2/alsin-deficient mice. <i>Neuroscience Research</i> , 2010, 68, 131-136.	1.0	14
26	Rostrocaudal Areal Patterning of Human PSC-Derived Cortical Neurons by FGF8 Signaling. <i>ENeuro</i> , 2018, 5, ENEURO.0368-17.2018.	0.9	11
27	Sexually dimorphic expression of Dmrt1 and H2AX in germ stem cells during gonadal development in <i>Xenopus laevis</i> . <i>FEBS Open Bio</i> , 2016, 6, 276-284.	1.0	10
28	Efficient differentiation and polarization of primary cultured neurons on poly(lactic acid) scaffolds with microgrooved structures. <i>Scientific Reports</i> , 2020, 10, 6716.	1.6	8
29	Human PZP and common marmoset A2ML1 as pregnancy related proteins. <i>Scientific Reports</i> , 2020, 10, 5088.	1.6	8
30	ALS2, the small GTPase Rab17-interacting protein, regulates maturation and sorting of Rab17-associated endosomes. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 908-915.	1.0	7
31	SQSTM1L341V variant that is linked to sporadic ALS exhibits impaired association with MAP1LC3 in cultured cells. <i>ENeurologicalSci</i> , 2021, 22, 100301.	0.5	6
32	The N-terminal intrinsically disordered region mediates intracellular localization and self-oligomerization of ALS2. <i>Biochemical and Biophysical Research Communications</i> , 2021, 569, 106-111.	1.0	6
33	LOWER SERUM LIPID LEVELS ARE RELATED TO RESPIRATORY IMPAIRMENT IN PATIENTS WITH ALS. <i>Neurology</i> , 2010, 74, 2027-2028.	1.5	5
34	PACT/PRKRA and p53 regulate transcriptional activity of DMRT1. <i>Genetics and Molecular Biology</i> , 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. <i>Neuroscience Research</i> , 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

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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 ALS2-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