

Hidemi Misawa

List of Publications by Year in descending order

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94
papers

5,917
citations

76326

40
h-index

76900

74
g-index

95
all docs

95
docs citations

95
times ranked

7143
citing authors

#	ARTICLE	IF	CITATIONS
1	Astrocytes as determinants of disease progression in inherited amyotrophic lateral sclerosis. <i>Nature Neuroscience</i> , 2008, 11, 251-253.	14.8	1,015
2	miRNA malfunction causes spinal motor neuron disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13111-13116.	7.1	299
3	Expression and Function of the Cholinergic System in Immune Cells. <i>Frontiers in Immunology</i> , 2017, 8, 1085.	4.8	250
4	Localization of two cholinergic markers, choline acetyltransferase and vesicular acetylcholine transporter in the central nervous system of the rat: in situ hybridization histochemistry and immunohistochemistry. <i>Journal of Chemical Neuroanatomy</i> , 1997, 13, 23-39.	2.1	203
5	A null mutation in the human CNTF gene is not causally related to neurological diseases. <i>Nature Genetics</i> , 1994, 7, 79-84.	21.4	202
6	Expression and function of genes encoding cholinergic components in murine immune cells. <i>Life Sciences</i> , 2007, 80, 2314-2319.	4.3	199
7	Loss of TDP-43 causes age-dependent progressive motor neuron degeneration. <i>Brain</i> , 2013, 136, 1371-1382.	7.6	168
8	Motor Neuron-specific Disruption of Proteasomes, but Not Autophagy, Replicates Amyotrophic Lateral Sclerosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 42984-42994.	3.4	162
9	Physiological functions of the cholinergic system in immune cells. <i>Journal of Pharmacological Sciences</i> , 2017, 134, 1-21.	2.5	151
10	Critical roles of acetylcholine and the muscarinic and nicotinic acetylcholine receptors in the regulation of immune function. <i>Life Sciences</i> , 2012, 91, 1027-1032.	4.3	142
11	Calcium-permeable AMPA receptors promote misfolding of mutant SOD1 protein and development of amyotrophic lateral sclerosis in a transgenic mouse model. <i>Human Molecular Genetics</i> , 2004, 13, 2183-2196.	2.9	138
12	Induced Loss of ADAR2 Engenders Slow Death of Motor Neurons from Q/R Site-Unedited GluR2. <i>Journal of Neuroscience</i> , 2010, 30, 11917-11925.	3.6	137
13	Neurotransmitter release regulated by a MALSI ϵ -liprin-1 presynaptic complex. <i>Journal of Cell Biology</i> , 2005, 170, 1127-1134.	5.2	116
14	Evidence for active acetylcholine metabolism in human amniotic epithelial cells: applicable to intracerebral allografting for neurologic disease. <i>Neuroscience Letters</i> , 1997, 232, 53-56.	2.1	96
15	The crucial role of caspase-9 in the disease progression of a transgenic ALS mouse model. <i>EMBO Journal</i> , 2003, 22, 6665-6674.	7.8	96
16	Induction of choline acetyltransferase mRNA in human mononuclear leukocytes stimulated by phytohemagglutinin, a T-cell activator. <i>Journal of Neuroimmunology</i> , 1998, 82, 101-107.	2.3	95
17	Ubiquitous expression of acetylcholine and its biological functions in life forms without nervous systems. <i>Life Sciences</i> , 2007, 80, 2206-2209.	4.3	89
18	Enhanced serum antigen-specific IgG1 and proinflammatory cytokine production in nicotinic acetylcholine receptor $\alpha 7$ subunit gene knockout mice. <i>Journal of Neuroimmunology</i> , 2007, 189, 69-74.	2.3	87

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19	Multiple mRNA species of choline acetyltransferase from rat spinal cord. <i>Molecular Brain Research</i> , 1993, 18, 71-76.	2.3	86
20	Immune system expression of SLURP-1 and SLURP-2, two endogenous nicotinic acetylcholine receptor ligands. <i>Life Sciences</i> , 2007, 80, 2365-2368.	4.3	79
21	Coordinate expression of vesicular acetylcholine transporter and choline acetyltransferase in sympathetic superior cervical neurones. <i>NeuroReport</i> , 1995, 6, 965-968.	1.2	77
22	Non-neuronal cholinergic system in regulation of immune function with a focus on $\hat{1}\pm 7$ nAChRs. <i>International Immunopharmacology</i> , 2015, 29, 127-134.	3.8	77
23	Loss of Cholinergic Synapses on the Spinal Motor Neurons of Amyotrophic Lateral Sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 1998, 57, 329-333.	1.7	73
24	Transfection Analysis of Functional Roles of Complexin I and II in the Exocytosis of Two Different Types of Secretory Vesicles. <i>Biochemical and Biophysical Research Communications</i> , 1999, 265, 691-696.	2.1	71
25	Functional Reconstitution of Purified Giant G α with μ -Opioid Receptors in Guinea Pig Striatal Membranes Pretreated with Micromolar Concentrations of N-Ethylmaleimide. <i>Journal of Neurochemistry</i> , 1990, 54, 841-848.	3.9	64
26	Reconciling neuronally and nonneuronally derived acetylcholine in the regulation of immune function. <i>Annals of the New York Academy of Sciences</i> , 2012, 1261, 7-17.	3.8	64
27	Human choline acetyltransferase mRNAs with different 5'UTR-region produce a 69-kDa major translation product. <i>Molecular Brain Research</i> , 1997, 44, 323-333.	2.3	61
28	Primary sensory neuronal expression of SLURP-1, an endogenous nicotinic acetylcholine receptor ligand. <i>Neuroscience Research</i> , 2009, 64, 403-412.	1.9	60
29	Constitutive expression of mRNA for the same choline acetyltransferase as that in the nervous system, an acetylcholine-synthesizing enzyme, in human leukemic T-cell lines. <i>Neuroscience Letters</i> , 1999, 259, 71-74.	2.1	58
30	Ultrastructural localization of high-affinity choline transporter in the rat neuromuscular junction: Enrichment on synaptic vesicles. <i>Synapse</i> , 2004, 53, 53-56.	1.2	58
31	Selective Expression of Osteopontin in ALS-resistant Motor Neurons is a Critical Determinant of Late Phase Neurodegeneration Mediated by Matrix Metalloproteinase-9. <i>Scientific Reports</i> , 2016, 6, 27354.	3.3	54
32	HEG1 is a novel mucin-like membrane protein that serves as a diagnostic and therapeutic target for malignant mesothelioma. <i>Scientific Reports</i> , 2017, 7, 45768.	3.3	50
33	Conditional knockout of Mn superoxide dismutase in postnatal motor neurons reveals resistance to mitochondrial generated superoxide radicals. <i>Neurobiology of Disease</i> , 2006, 23, 169-177.	4.4	49
34	Neuregulin 1 confers neuroprotection in SOD1-linked amyotrophic lateral sclerosis mice via restoration of C-boutons of spinal motor neurons. <i>Acta Neuropathologica Communications</i> , 2016, 4, 15.	5.2	49
35	Transcriptional Regulation of Choline Acetyltransferase Gene by Cyclic AMP. <i>Journal of Neurochemistry</i> , 1993, 60, 1383-1387.	3.9	48
36	Diminished antigen-specific IgG1 and interleukin-6 production and acetylcholinesterase expression in combined M1 and M5 muscarinic acetylcholine receptor knockout mice. <i>Journal of Neuroimmunology</i> , 2007, 188, 80-85.	2.3	47

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37	Molecular characterization of the mouse vesicular acetylcholine transporter gene. <i>NeuroReport</i> , 1997, 8, 3467-3473.	1.2	46
38	Contrasting Localizations of MALS/LIN-7 PDZ Proteins in Brain and Molecular Compensation in Knockout Mice. <i>Journal of Biological Chemistry</i> , 2001, 276, 9264-9272.	3.4	46
39	Identification and Transgenic Analysis of a Murine Promoter that Targets Cholinergic Neuron Expression. <i>Journal of Neurochemistry</i> , 1999, 72, 17-28.	3.9	42
40	Renal defects associated with improper polarization of the CRB and DLG polarity complexes in MALS-3 knockout mice. <i>Journal of Cell Biology</i> , 2007, 179, 151-164.	5.2	42
41	Expression of Choline Acetyltransferase mRNA and Protein in T-Lymphocytes.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1995, 71, 231-235.	3.8	41
42	Expression of SLURP-1, an endogenous $\alpha 7$ nicotinic acetylcholine receptor allosteric ligand, in murine bronchial epithelial cells. <i>Journal of Neuroscience Research</i> , 2009, 87, 2740-2747.	2.9	41
43	Klf4 Regulates the Expression of Slurp1, Which Functions as an Immunomodulatory Peptide in the Mouse Cornea. , 2012, 53, 8433.		38
44	Innate immune adaptor TRIF deficiency accelerates disease progression of ALS mice with accumulation of aberrantly activated astrocytes. <i>Cell Death and Differentiation</i> , 2018, 25, 2130-2146.	11.2	36
45	Formation and spreading of TDP-43 aggregates in cultured neuronal and glial cells demonstrated by time-lapse imaging. <i>PLoS ONE</i> , 2017, 12, e0179375.	2.5	36
46	SLURP-1, an endogenous $\alpha 7$ nicotinic acetylcholine receptor allosteric ligand, is expressed in CD205+ dendritic cells in human tonsils and potentiates lymphocytic cholinergic activity. <i>Journal of Neuroimmunology</i> , 2014, 267, 43-49.	2.3	34
47	Distinct Roles of $\alpha 7$ nAChRs in Antigen-Presenting Cells and CD4+ T Cells in the Regulation of T Cell Differentiation. <i>Frontiers in Immunology</i> , 2019, 10, 1102.	4.8	34
48	VAcHT-Cre.Fast and VAcHT-Cre.Slow: Postnatal expression of Cre recombinase in somatomotor neurons with different onset. <i>Genesis</i> , 2003, 37, 44-50.	1.6	31
49	μ -Opioid agonist inhibits phospholipase C, possibly via an inhibition of G-protein activity. <i>Neuroscience Letters</i> , 1990, 112, 324-327.	2.1	30
50	Identification of a Monogenic Locus (<i>jams1</i>) Causing Juvenile Audiogenic Seizures in Mice. <i>Journal of Neuroscience</i> , 2002, 22, 10088-10093.	3.6	28
51	A misfolded dimer of Cu/Zn-superoxide dismutase leading to pathological oligomerization in amyotrophic lateral sclerosis. <i>Protein Science</i> , 2017, 26, 484-496.	7.6	28
52	Changes of expression levels of choline acetyltransferase and vesicular acetylcholine transporter mRNAs after transection of the hypoglossal nerve in adult rats. <i>Neuroscience Letters</i> , 1997, 236, 95-98.	2.1	27
53	Behavioral and electrophysiological evidence for a neuroprotective role of aquaporin-4 in the 5xFAD transgenic mice model. <i>Acta Neuropathologica Communications</i> , 2020, 8, 67.	5.2	27
54	Role of GluR1 in Activity-Dependent Motor System Development. <i>Journal of Neuroscience</i> , 2008, 28, 9953-9968.	3.6	26

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55	The in vivo contribution of motor neuron TrkB receptors to mutant SOD1 motor neuron disease. <i>Human Molecular Genetics</i> , 2011, 20, 4116-4131.	2.9	26
56	Osteopontin is an alpha motor neuron marker in the mouse spinal cord. <i>Journal of Neuroscience Research</i> , 2012, 90, 732-742.	2.9	26
57	The specific opioid μ -agonist U-50,488H inhibits low Km GTPase. <i>European Journal of Pharmacology</i> , 1987, 138, 129-132.	3.5	25
58	Localization of Acetylcholine-Related Molecules in the Retina: Implication of the Communication from Photoreceptor to Retinal Pigment Epithelium. <i>PLoS ONE</i> , 2012, 7, e42841.	2.5	24
59	A copper-deficient form of mutant Cu/Zn-superoxide dismutase as an early pathological species in amyotrophic lateral sclerosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2119-2130.	3.8	22
60	Dissociation of blood-brain barrier disruption and disease manifestation in an aquaporin-4-deficient mouse model of amyotrophic lateral sclerosis. <i>Neuroscience Research</i> , 2018, 133, 48-57.	1.9	22
61	Substrate-Induced Internalization of the High-Affinity Choline Transporter. <i>Journal of Neuroscience</i> , 2011, 31, 14989-14997.	3.6	21
62	Regulation of Immune Functions by Non-Neuronal Acetylcholine (ACh) via Muscarinic and Nicotinic ACh Receptors. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6818.	4.1	21
63	IL-22/STAT3-Induced Increases in SLURP1 Expression within Psoriatic Lesions Exerts Antimicrobial Effects against <i>Staphylococcus aureus</i> . <i>PLoS ONE</i> , 2015, 10, e0140750.	2.5	20
64	Down-regulation of secreted lymphocyte antigen-6/urokinase-type plasminogen activator receptor-related peptide-1 (SLURP-1), an endogenous allosteric $\alpha 7$ nicotinic acetylcholine receptor modulator, in murine and human asthmatic conditions. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 713-718.	2.1	19
65	A subtype of opioid μ -receptor is coupled to inhibition of Gi α -mediated phospholipase C activity in the guinea pig cerebellum. <i>FEBS Letters</i> , 1995, 361, 106-110.	2.8	18
66	Calcium-Independent Release of Acetylcholine from Stable Cell Lines Expressing Mouse Choline Acetyltransferase cDNA. <i>Journal of Neurochemistry</i> , 2002, 62, 465-470.	3.9	18
67	Effect of secreted lymphocyte antigen-6/urokinase-type plasminogen activator receptor-related peptide-1 (SLURP-1) on airway epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 175-179.	2.1	18
68	A novel function of synapsin II in neurotransmitter release. <i>Molecular Brain Research</i> , 2000, 85, 133-143.	2.3	17
69	Immunochemical characterization on pathological oligomers of mutant Cu/Zn-superoxide dismutase in amyotrophic lateral sclerosis. <i>Molecular Neurodegeneration</i> , 2017, 12, 2.	10.8	16
70	Minireview: Divergent roles of $\alpha 7$ nicotinic acetylcholine receptors expressed on antigen-presenting cells and CD4+ T cells in the regulation of T cell differentiation. <i>International Immunopharmacology</i> , 2020, 82, 106306.	3.8	16
71	Acetylcholine synthesis and release in NIH3T3 cells coexpressing the high-affinity choline transporter and choline acetyltransferase. <i>Journal of Neuroscience Research</i> , 2009, 87, 3024-3032.	2.9	15
72	Transcriptional regulation of SLURP2, a psoriasis-associated gene, is under control of IL-22 in the skin: A special reference to the nested gene LYNX1. <i>International Immunopharmacology</i> , 2015, 29, 71-75.	3.8	15

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73	Identification of mesothelioma-specific sialylated epitope recognized with monoclonal antibody SKM9-2 in a mucin-like membrane protein HEG1. <i>Scientific Reports</i> , 2018, 8, 14251.	3.3	15
74	Stagnation of glymphatic interstitial fluid flow and delay in waste clearance in the SOD1-G93A mouse model of ALS. <i>Neuroscience Research</i> , 2021, 171, 74-82.	1.9	15
75	Discrete acetylcholine release from neuroblastoma or hybrid cells overexpressing choline acetyltransferase into the neuromuscular synaptic cleft. <i>Neuroscience Research</i> , 1995, 22, 81-88.	1.9	14
76	Oxidative misfolding of Cu/Zn-superoxide dismutase triggered by non-canonical intramolecular disulfide formation. <i>Free Radical Biology and Medicine</i> , 2020, 147, 187-199.	2.9	13
77	Endogenous neurotoxin-like protein Ly6H inhibits alpha7 nicotinic acetylcholine receptor currents at the plasma membrane. <i>Scientific Reports</i> , 2020, 10, 11996.	3.3	12
78	Sustained subcutaneous infusion of nicotine enhances cholinergic vasodilation in the cerebral cortex induced by stimulation of the nucleus basalis of Meynert in rats. <i>European Journal of Pharmacology</i> , 2011, 654, 235-240.	3.5	11
79	Aberrant trafficking of the high-affinity choline transporter in AP β -deficient mice. <i>European Journal of Neuroscience</i> , 2008, 27, 3109-3117.	2.6	10
80	Differential roles of NF-Y transcription factor in ER chaperone expression and neuronal maintenance in the CNS. <i>Scientific Reports</i> , 2016, 6, 34575.	3.3	10
81	A Subtype of μ -Opioid Receptor Mediates Inhibition of High-Affinity GTPase Inherent in Gi1 in Guinea Pig Cerebellar Membranes. <i>Journal of Neurochemistry</i> , 2002, 66, 845-851.	3.9	9
82	Selective disruption of acetylcholine synthesis in subsets of motor neurons: A new model of late-onset motor neuron disease. <i>Neurobiology of Disease</i> , 2014, 65, 102-111.	4.4	8
83	Novel analogs of choline as potential neuroprotective agents. <i>Journal of Alzheimer's Disease</i> , 2005, 6, S85-S92.	2.6	7
84	SIMPLE binds specifically to PI4P through SIMPLE-like domain and participates in protein trafficking in the trans-Golgi network and/or recycling endosomes. <i>PLoS ONE</i> , 2018, 13, e0199829.	2.5	7
85	Hyperproliferation of synapses on spinal motor neurons of Duchenne muscular dystrophy and myotonic dystrophy patients. <i>Acta Neuropathologica</i> , 2003, 106, 557-560.	7.7	6
86	The missing link between long-term stimulation of nicotinic receptors and the increases of acetylcholine release and vasodilation in the cerebral cortex of aged rats. <i>Journal of Physiological Sciences</i> , 2013, 63, 95-101.	2.1	5
87	Involvement of neuronal and muscular Trk-fused gene (TFG) defects in the development of neurodegenerative diseases. <i>Scientific Reports</i> , 2022, 12, 1966.	3.3	5
88	Competitive inhibition of the high-affinity choline transporter by tetrahydropyrimidine anthelmintics. <i>European Journal of Pharmacology</i> , 2021, 898, 173986.	3.5	4
89	Reappraisal of VACHT α Cre: Preference in slow motor neurons innervating type I or IIa muscle fibers. <i>Genesis</i> , 2016, 54, 568-572.	1.6	3
90	Reply to "CNTF in the embryo". <i>Nature Genetics</i> , 1994, 7, 460-460.	21.4	0

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91	cDNA cloning and chromosomal localization of the human ciliary neurotrophic factor gene. Neuroscience Letters, 1995, 185, 175-178.	2.1	0
92	Roles for $\alpha 7$ nicotinic acetylcholine receptors on na $\alpha 7^{-ve}$ CD4 ⁺ T cells and antigen-presenting cells in regulation of differentiation. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-3-25.	0.0	0
93	Selective elimination of slow motor neurons in mice progressively induces a kinetic tremor that resembles patients with essential tremor. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-1-82.	0.0	0
94	$\alpha 7$ Nicotinic acetylcholine (ACh) receptors ($\alpha 7$ nAChRs) expressed on antigen-presenting cells (APCs) suppress the differentiation of CD4 ⁺ T cells.. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2019, 92, 2-P-088.	0.0	0