Masato Hasegawa

List of Publications by Citations

102 papers	11,168 citations	44 h-index	105 g-index
111 ext. papers	13,355 ext. citations	8.5 avg, IF	6.2 L-index

#	Paper	IF	Citations
102	TDP-43 is a component of ubiquitin-positive tau-negative inclusions in frontotemporal lobar degeneration and amyotrophic lateral sclerosis. *Biochemical and Biophysical Research Communications*, **2006**, 351, 602-11	3.4	1771
101	alpha-Synuclein is phosphorylated in synucleinopathy lesions. *Nature Cell Biology*, **2002**, 4, 160-4	23.4	1385
100	Prion-like spreading of pathological -synuclein in brain. *Brain*, **2013**, 136, 1128-38	11.2	551
99	Phosphorylated TDP-43 in frontotemporal lobar degeneration and amyotrophic lateral sclerosis. *Annals of Neurology*, **2008**, 64, 60-70	9.4	484
98	Inhibition of heparin-induced tau filament formation by phenothiazines, polyphenols, and porphyrins. *Journal of Biological Chemistry*, **2005**, 280, 7614-23	5.4	409
97	Tau proteins with FTDP-17 mutations have a reduced ability to promote microtubule assembly. *FEBS Letters*, **1998**, 437, 207-10	3.8	367
96	Reconsideration of Amyloid Hypothesis and Tau Hypothesis in Alzheimer's Disease. *Frontiers in Neuroscience*, **2018**, 12, 25	5.1	366
95	Prion-like properties of pathological TDP-43 aggregates from diseased brains. *Cell Reports*, **2013**, 4, 124-34	8.6	322
94	Phosphorylated alpha-synuclein is ubiquitinated in alpha-synucleinopathy lesions. *Journal of Biological Chemistry*, **2002**, 277, 49071-6	5.4	315
93	Frontotemporal dementia and corticobasal degeneration in a family with a P301S mutation in tau. *Journal of Neuropathology and Experimental Neurology*, **1999**, 58, 667-77	3.1	301
92	Accumulation of phosphorylated alpha-synuclein in aging human brain. *Journal of Neuropathology and Experimental Neurology*, **2003**, 62, 644-54	3.1	273
91	Misfolded proteinase K-resistant hyperphosphorylated -synuclein in aged transgenic mice with locomotor deterioration and in human -synucleinopathies. *Journal of Clinical Investigation*, **2002**, 110, 1429-1439	15.9	253
90	Phosphorylated TDP-43 in Alzheimer's disease and dementia with Lewy bodies. *Acta Neuropathologica*, **2009**, 117, 125-36	14.3	248
89	Seeded aggregation and toxicity of {alpha}-synuclein and tau: cellular models of neurodegenerative diseases. *Journal of Biological Chemistry*, **2010**, 285, 34885-98	5.4	235
88	Structures of -synuclein filaments from multiple system atrophy. *Nature*, **2020**, 585, 464-469	50.4	195
87	Novel tau filament fold in corticobasal degeneration. *Nature*, **2020**, 580, 283-287	50.4	188
86	Hyperphosphorylation of tau in PHF. *Neurobiology of Aging*, **1995**, 16, 365-71; discussion 371-80	5.6	180

85	TDP-43 is deposited in the Guam parkinsonism-dementia complex brains. *Brain*, **2007**, 130, 1386-94	11.2	177
84	Misfolded proteinase K-resistant hyperphosphorylated alpha-synuclein in aged transgenic mice with locomotor deterioration and in human alpha-synucleinopathies. *Journal of Clinical Investigation*, **2002**, 110, 1429-39	15.9	156
83	Pathological alpha-synuclein propagates through neural networks. *Acta Neuropathologica Communications*, **2014**, 2, 88	7.3	155
82	Alzheimer-like changes in microtubule-associated protein Tau induced by sulfated glycosaminoglycans. Inhibition of microtubule binding, stimulation of phosphorylation, and filament assembly depend on the degree of sulfation. *Journal of Biological Chemistry*, **1997**, 272, 33118-24	5.4	148
81	Identification of amino-terminally cleaved tau fragments that distinguish progressive supranuclear palsy from corticobasal degeneration. *Annals of Neurology*, **2004**, 55, 72-9	9.4	146
80	Regulation of mitochondrial transport and inter-microtubule spacing by tau phosphorylation at the sites hyperphosphorylated in Alzheimer□s disease. *Journal of Neuroscience*, **2012**, 32, 2430-41	6.6	123
79	Biochemical classification of tauopathies by immunoblot, protein sequence and mass spectrometric analyses of sarkosyl-insoluble and trypsin-resistant tau. *Acta Neuropathologica*, **2016**, 131, 267-280	14.3	122
78	Propagation of pathological □synuclein in marmoset brain. *Acta Neuropathologica Communications*, **2017**, 5, 12	7.3	115
77	Ubiquitination of alpha-synuclein. *Biochemistry*, **2005**, 44, 361-8	3.2	106
76	Phosphorylated and cleaved TDP-43 in ALS, FTLD and other neurodegenerative disorders and in cellular models of TDP-43 proteinopathy. *Neuropathology*, **2010**, 30, 170-81	2	87
75	Progranulin regulates lysosomal function and biogenesis through acidification of lysosomes. *Human Molecular Genetics*, **2017**, 26, 969-988	5.6	84
74	Mass spectrometric analysis of accumulated TDP-43 in amyotrophic lateral sclerosis brains. *Scientific Reports*, **2016**, 6, 23281	4.9	83
73	Accumulation of phosphorylated TDP-43 in brains of patients with argyrophilic grain disease. *Acta Neuropathologica*, **2009**, 117, 151-8	14.3	80
72	Conversion of wild-type alpha-synuclein into mutant-type fibrils and its propagation in the presence of A30P mutant. *Journal of Biological Chemistry*, **2009**, 284, 7940-50	5.4	77
71	Phosphorylated TDP-43 pathology and hippocampal sclerosis in progressive supranuclear palsy. *Acta Neuropathologica*, **2010**, 120, 55-66	14.3	77
70	Molecular analysis and biochemical classification of TDP-43 proteinopathy. *Brain*, **2012**, 135, 3380-91	11.2	75
69	Neuronal and glial inclusions in frontotemporal dementia with or without motor neuron disease are immunopositive for p62. *Neuroscience Letters*, **2003**, 342, 41-4	3.3	73
68	Plasma phosphorylated-TDP-43 protein levels correlate with brain pathology in frontotemporal lobar degeneration. *Acta Neuropathologica*, **2009**, 118, 647-58	14.3	65

67	Methylene blue reduced abnormal tau accumulation in P301L tau transgenic mice. *PLoS ONE*, **2012**, 7, e52389	3.7	64
66	Templated Aggregation of TAR DNA-binding Protein of 43 kDa (TDP-43) by Seeding with TDP-43 Peptide Fibrils. *Journal of Biological Chemistry*, **2016**, 291, 8896-907	5.4	62
65	Cysteine misincorporation in bacterially expressed human alpha-synuclein. *FEBS Letters*, **2006**, 580, 1775-78	3.8	61
64	Structure-based classification of tauopathies. *Nature*, **2021**, 598, 359-363	50.4	59
63	The Effect of Fragmented Pathogenic -Synuclein Seeds on Prion-like Propagation. *Journal of Biological Chemistry*, **2016**, 291, 18675-88	5.4	58
62	Fibrillogenic nuclei composed of P301L mutant tau induce elongation of P301L tau but not wild-type tau. *Journal of Biological Chemistry*, **2007**, 282, 20309-18	5.4	57
61	-Synuclein Fibrils Exhibit Gain of Toxic Function, Promoting Tau Aggregation and Inhibiting Microtubule Assembly. *Journal of Biological Chemistry*, **2016**, 291, 15046-56	5.4	51
60	Extracellular association of APP and tau fibrils induces intracellular aggregate formation of tau. *Acta Neuropathologica*, **2015**, 129, 895-907	14.3	50
59	Extensive deamidation at asparagine residue 279 accounts for weak immunoreactivity of tau with RD4 antibody in Alzheimer's disease brain. *Acta Neuropathologica Communications*, **2013**, 1, 54	7.3	47
58	Prion-like mechanisms and potential therapeutic targets in neurodegenerative disorders. *Pharmacology & Therapeutics*, **2017**, 172, 22-33	13.9	43
57	Potent prion-like behaviors of pathogenic -synuclein and evaluation of inactivation methods. *Acta Neuropathologica Communications*, **2018**, 6, 29	7.3	43
56	Molecular Mechanisms in the Pathogenesis of Alzheimer's disease and Tauopathies-Prion-Like Seeded Aggregation and Phosphorylation. *Biomolecules*, **2016**, 6,	5.9	43
55	Pathological Endogenous -Synuclein Accumulation in Oligodendrocyte Precursor Cells Potentially Induces Inclusions in Multiple System Atrophy. *Stem Cell Reports*, **2018**, 10, 356-365	8	40
54	Isomerase Pin1 stimulates dephosphorylation of tau protein at cyclin-dependent kinase (Cdk5)-dependent Alzheimer phosphorylation sites. *Journal of Biological Chemistry*, **2013**, 288, 7968-7977	5.4	40
53	Molecular dissection of TDP-43 proteinopathies. *Journal of Molecular Neuroscience*, **2011**, 45, 480-5	3.3	40
52	Seeded assembly in vitro does not replicate the structures of -synuclein filaments from multiple system atrophy. *FEBS Open Bio*, **2021**, 11, 999-1013	2.7	36
51	Progranulin reduction is associated with increased tau phosphorylation in P301L tau transgenic mice. *Journal of Neuropathology and Experimental Neurology*, **2015**, 74, 158-65	3.1	35
50	The twenty-four KDa C-terminal tau fragment increases with aging in tauopathy mice: implications of prion-like properties. *Human Molecular Genetics*, **2015**, 24, 6403-16	5.6	35

49	The basis of clinicopathological heterogeneity in TDP-43 proteinopathy. *Acta Neuropathologica*, **2019**, 138, 751-770	14.3	34
48	Wild-Type Monomeric Synuclein Can Impair Vesicle Endocytosis and Synaptic Fidelity via Tubulin Polymerization at the Calyx of Held. *Journal of Neuroscience*, **2017**, 37, 6043-6052	6.6	33
47	Isoform-independent and -dependent phosphorylation of microtubule-associated protein tau in mouse brain during postnatal development. *Journal of Biological Chemistry*, **2018**, 293, 1781-1793	5.4	28
46	Pathological tau deposition in Motor Neurone Disease and frontotemporal lobar degeneration associated with TDP-43 proteinopathy. *Acta Neuropathologica Communications*, **2016**, 4, 33	7.3	26
45	Accumulation of multiple neurodegenerative disease-related proteins in familial frontotemporal lobar degeneration associated with granulin mutation. *Scientific Reports*, **2017**, 7, 1513	4.9	25
44	LATE to the PART-y. *Brain*, **2019**, 142, e47	11.2	25
43	synuclein strains that cause distinct pathologies differentially inhibit proteasome. *ELife*, **2020**, 9,	8.9	23
42	Synuclein: Experimental Pathology. *Cold Spring Harbor Perspectives in Medicine*, **2016**, 6,	5.4	23
41	Mutations in CHCHD2 cause synuclein aggregation. *Human Molecular Genetics*, **2019**, 28, 3895-3911	5.6	22
40	TDP-43 pathology in familial British dementia. *Acta Neuropathologica*, **2009**, 118, 303-11	14.3	22
39	TDP-43 Prions. *Cold Spring Harbor Perspectives in Medicine*, **2018**, 8,	5.4	21
38	Comparison of Common and Disease-Specific Post-translational Modifications of Pathological Tau Associated With a Wide Range of Tauopathies. *Frontiers in Neuroscience*, **2020**, 14, 581936	5.1	18
37	Epitope mapping of antibodies against TDP-43 and detection of protease-resistant fragments of pathological TDP-43 in amyotrophic lateral sclerosis and frontotemporal lobar degeneration. *Biochemical and Biophysical Research Communications*, **2012**, 417, 116-21	3.4	17
36	Structure of pathological TDP-43 filaments from ALS with FTLD. *Nature*, **2021**,	50.4	16
35	Quantitative and combinatory determination of in situ phosphorylation of tau and its FTDP-17 mutants. *Scientific Reports*, **2016**, 6, 33479	4.9	15
34	The Abundance of Nonphosphorylated Tau in Mouse and Human Tauopathy Brains Revealed by the Use of Phos-Tag Method. *American Journal of Pathology*, **2016**, 186, 398-409	5.8	14
33	Prion-like propagation of synuclein in neurodegenerative diseases. *Progress in Molecular Biology and Translational Science*, **2019**, 168, 323-348	4	13
32	Effect of L-DOPA/Benserazide on Propagation of Pathological Synuclein. *Frontiers in Neuroscience*, **2019**, 13, 595	5.1	11

31	Human NPCs can degrade -syn fibrils and transfer them preferentially in a cell contact-dependent manner possibly through TNT-like structures. *Neurobiology of Disease*, **2019**, 132, 104609	7.5	11
30	-Synuclein fibrils subvert lysosome structure and function for the propagation of protein misfolding between cells through tunneling nanotubes. *PLoS Biology*, **2021**, 19, e3001287	9.7	11
29	Tau isoform expression and phosphorylation in marmoset brains. *Journal of Biological Chemistry*, **2019**, 294, 11433-11444	5.4	10
28	Structurally distinct -synuclein fibrils induce robust parkinsonian pathology. *Movement Disorders*, **2020**, 35, 256-267	7	10
27	-Methyl-D-Aspartate Receptor Link to the MAP Kinase Pathway in Cortical and Hippocampal Neurons and Microglia Is Dependent on Calcium Sensors and Is Blocked by -Synuclein, Tau, and Phospho-Tau in Non-transgenic and Transgenic APP Mice. *Frontiers in Molecular Neuroscience*, **2018**, 11, 273	6.1	10
26	An autopsy case of globular glial tauopathy presenting with clinical features of motor neuron disease with dementia and iron deposition in the motor cortex. *Neuropathology*, **2018**, 38, 372	2	9
25	Tau progression in single severe frontal traumatic brain injury in human brains. *Journal of the Neurological Sciences*, **2019**, 407, 116495	3.2	7
24	Factors associated with development and distribution of granular/fuzzy astrocytes in neurodegenerative diseases. *Brain Pathology*, **2020**, 30, 811-830	6	7
23	Age-dependent formation of TMEM106B amyloid filaments in human brains.. *Nature*, **2022**,	50.4	6
22	Globular glial tauopathy Type I presenting with behavioral variant frontotemporal dementia. *Neuropathology*, **2020**, 40, 515-525	2	5
21	Asparagine residue 368 is involved in Alzheimer's disease tau strain-specific aggregation. *Journal of Biological Chemistry*, **2020**, 295, 13996-14014	5.4	5
20	Tau Protein and Frontotemporal Dementias. *Advances in Experimental Medicine and Biology*, **2021**, 1281, 177-199	3.6	5
19	Human tauopathy-derived tau strains determine the substrates recruited for templated amplification. *Brain*, **2021**, 144, 2333-2348	11.2	4
18	Distinct phosphorylation profiles of tau in brains of patients with different tauopathies. *Neurobiology of Aging*, **2021**, 108, 72-79	5.6	4
17	Dextran sulphate-induced tau assemblies cause endogenous tau aggregation and propagation in wild-type mice. *Brain Communications*, **2020**, 2, fcaa091	4.5	3
16	Development of a novel tau propagation mouse model endogenously expressing 3 and 4 repeat tau isoforms. *Brain*, **2021**,	11.2	3
15	Experimental models of prion-like protein propagation. *Neuropathology*, **2020**, 40, 460-466	2	2
14	Phosphorylation of endogenous -synuclein induced by extracellular seeds initiates at the pre-synaptic region and spreads to the cell body.. *Scientific Reports*, **2022**, 12, 1163	4.9	2

13	In vivo visualization of propagating □synuclein pathologies in mouse and marmoset models by a bimodal imaging probe, C05-05		2
12	Progression of phosphorylated □synuclein in Macaca fuscata. *Brain Pathology*, **2021**, 31, e12952	6	2
11	Seeded assembly in vitro does not replicate the structures of □synuclein filaments from multiple system atrophy		1
10	Amyotrophic lateral sclerosis with speech apraxia, predominant upper motor neuron signs, and prominent iron accumulation in the frontal operculum and precentral gyrus. *Neuropathology*, **2021**, 41, 324-331	2	1
9	Electron Microscopic Analysis of □Synuclein Fibrils. *Methods in Molecular Biology*, **2021**, 2322, 17-25	1.4	1
8	An autopsy case of corticobasal syndrome due to asymmetric degeneration of the motor cortex and substantia nigra with TDP-43 proteinopathy, associated with Alzheimer□s disease pathology. *Neuropathology*, **2021**, 41, 214-225	2	1
7	Ultrastructural and biochemical classification of pathogenic tau, □synuclein and TDP-43.. *Acta Neuropathologica*, **2022**, 143, 613-640	14.3	1
6	The hot cross bun sign in corticobasal degeneration. *Neuropathology*, **2021**, 41, 376-380	2	0
5	Common Marmoset Model of □Synuclein Propagation. *Methods in Molecular Biology*, **2021**, 2322, 131-139	1.4	0
4	Independent distribution between tauopathy secondary to subacute sclerotic panencephalitis and measles virus: An immunohistochemical analysis in autopsy cases including cases treated with aggressive antiviral therapies.. *Brain Pathology*, **2022**, e13069	6	0
3	Structures of tau and □synuclein filaments from brains of patients with neurodegenerative diseases. *Neurochemistry International*, **2022**, 105362	4.4	0
2	An autopsy case of Alzheimer□s disease with amygdala-predominant Lewy pathology presenting with frontotemporal dementia-like psychiatric symptoms.. *Neuropathology*, **2022**,	2	
1	An autopsy case of corticobasal degeneration with inferior olivary hypertrophy. *Neuropathology*, **2021**, 41, 226-235	2	