

# Tadafumi Hashimoto

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

4,929  
citations

109264

35  
h-index

155592

55  
g-index

61  
all docs

61  
docs citations

61  
times ranked

7321  
citing authors

#	ARTICLE	IF	CITATIONS
1	ALS-linked cytoplasmic FUS assemblies are compositionally different from physiological stress granules and sequester hnRNPA3, a novel modifier of FUS toxicity. <i>Neurobiology of Disease</i> , 2022, 162, 105585.	2.1	19
2	Lipid flippase dysfunction as a therapeutic target for endosomal anomalies in Alzheimer's disease. <i>IScience</i> , 2022, 25, 103869.	1.9	7
3	Glymphatic system clears extracellular tau and protects from tau aggregation and neurodegeneration. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	93
4	Casein kinase 1 $\beta$ phosphorylates fused in sarcoma (FUS) and ameliorates FUS-mediated neurodegeneration. <i>Journal of Biological Chemistry</i> , 2022, 298, 102191.	1.6	1
5	Long non-coding RNA NEAT1_1 ameliorates TDP-43 toxicity in in vivo models of TDP-43 proteinopathy. <i>RNA Biology</i> , 2021, 18, 1546-1554.	1.5	27
6	Collagenous Alzheimer amyloid plaque component impacts on the compaction of amyloid- $\beta$ plaques. <i>Acta Neuropathologica Communications</i> , 2020, 8, 212.	2.4	13
7	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.	2.4	27
8	Calcium-responsive transactivator (CREST) toxicity is rescued by loss of PBP1/ATXN2 function in a novel yeast proteinopathy model and in transgenic flies. <i>PLoS Genetics</i> , 2019, 15, e1008308.	1.5	5
9	Characterization of the unique In Vitro effects of unsaturated fatty acids on the formation of amyloid $\beta$ fibrils. <i>PLoS ONE</i> , 2019, 14, e0219465.	1.1	11
10	Chronic cerebral hypoperfusion shifts the equilibrium of amyloid $\beta$ oligomers to aggregation-prone species with higher molecular weight. <i>Scientific Reports</i> , 2019, 9, 2827.	1.6	27
11	Differential effects of diet- and genetically-induced brain insulin resistance on amyloid pathology in a mouse model of Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2019, 14, 15.	4.4	74
12	Roles of Collagen XXV and Its Putative Receptors PTP $\beta$ in Intramuscular Motor Innervation and Congenital Cranial Dysinnervation Disorder. <i>Cell Reports</i> , 2019, 29, 4362-4376.e6.	2.9	16
13	Self-assembly of FUS through its low-complexity domain contributes to neurodegeneration. <i>Human Molecular Genetics</i> , 2018, 27, 1353-1365.	1.4	19
14	Patterns and severity of vascular amyloid in Alzheimer's disease associated with duplications and missense mutations in APP gene, Down syndrome and sporadic Alzheimer's disease. <i>Acta Neuropathologica</i> , 2018, 136, 569-587.	3.9	47
15	Soluble oligomeric amyloid- $\beta$ induces calcium dyshomeostasis that precedes synapse loss in the living mouse brain. <i>Molecular Neurodegeneration</i> , 2017, 12, 27.	4.4	120
16	Neuron-specific methylome analysis reveals epigenetic regulation and tau-related dysfunction of BRCA1 in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9645-E9654.	3.3	72
17	Familial Amyotrophic Lateral Sclerosis-linked Mutations in Profilin 1 Exacerbate TDP-43-induced Degeneration in the Retina of <i>Drosophila melanogaster</i> through an Increase in the Cytoplasmic Localization of TDP-43. <i>Journal of Biological Chemistry</i> , 2016, 291, 23464-23476.	1.6	17
18	Calcium-responsive transactivator (CREST) protein shares a set of structural and functional traits with other proteins associated with amyotrophic lateral sclerosis. <i>Molecular Neurodegeneration</i> , 2015, 10, 20.	4.4	25

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19	Role of Apolipoprotein E in $\text{A}\beta$ -Amyloidogenesis. <i>Journal of Biological Chemistry</i> , 2015, 290, 15163-15174.	1.6	46
20	Chronic Optogenetic Activation Augments $\text{A}\beta$ Pathology in a Mouse Model of Alzheimer Disease. <i>Cell Reports</i> , 2015, 11, 859-865.	2.9	186
21	RNA Aptamer Probes as Optical Imaging Agents for the Detection of Amyloid Plaques. <i>PLoS ONE</i> , 2014, 9, e89901.	1.1	37
22	CLAC-P/Collagen Type XXV Is Required for the Intramuscular Innervation of Motoneurons during Neuromuscular Development. <i>Journal of Neuroscience</i> , 2014, 34, 1370-1379.	1.7	41
23	Neuronal activity and secreted amyloid $\text{A}\beta$ lead to altered amyloid $\text{A}\beta$ precursor protein and presenilin 1 interactions. <i>Neurobiology of Disease</i> , 2013, 50, 127-134.	2.1	32
24	Gene Transfer of Human <i>ApoE</i> Isoforms Results in Differential Modulation of Amyloid Deposition and Neurotoxicity in Mouse Brain. <i>Science Translational Medicine</i> , 2013, 5, 212ra161.	5.8	135
25	Brain interstitial oligomeric amyloid $\text{A}\beta$ increases with age and is resistant to clearance from brain in a mouse model of Alzheimer's disease. <i>FASEB Journal</i> , 2013, 27, 3239-3248.	0.2	57
26	RNA binding mediates neurotoxicity in the transgenic <i>Drosophila</i> model of TDP-43 proteinopathy. <i>Human Molecular Genetics</i> , 2013, 22, 4474-4484.	1.4	68
27	Microfluidic Chemotaxis Platform for Differentiating the Roles of Soluble and Bound Amyloid- $\text{A}\beta$ on Microglial Accumulation. <i>Scientific Reports</i> , 2013, 3, 1823.	1.6	82
28	Distinct Dendritic Spine and Nuclear Phases of Calcineurin Activation after Exposure to Amyloid- $\text{A}\beta$ Revealed by a Novel Fluorescence Resonance Energy Transfer Assay. <i>Journal of Neuroscience</i> , 2012, 32, 5298-5309.	1.7	54
29	Apolipoprotein E4 effects in Alzheimer's disease are mediated by synaptotoxic oligomeric amyloid- $\text{A}\beta$ . <i>Brain</i> , 2012, 135, 2155-2168.	3.7	268
30	Identification of Small Molecule Inhibitors of Neurite Loss Induced by $\text{A}\beta$ peptide using High Content Screening. <i>Journal of Biological Chemistry</i> , 2012, 287, 8714-8723.	1.6	20
31	Apolipoprotein E, Especially Apolipoprotein E4, Increases the Oligomerization of Amyloid $\text{A}\beta$ Peptide. <i>Journal of Neuroscience</i> , 2012, 32, 15181-15192.	1.7	219
32	The Synaptic Accumulation of Hyperphosphorylated Tau Oligomers in Alzheimer Disease Is Associated With Dysfunction of the Ubiquitin-Proteasome System. <i>American Journal of Pathology</i> , 2012, 181, 1426-1435.	1.9	369
33	Inhibition of the NFAT Pathway Alleviates Amyloid Beta Neurotoxicity in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 3176-3192.	1.7	92
34	Heat shock protein 70 modulates toxic extracellular $\text{A}\beta$ oligomers and rescues trans-synaptic toxicity. <i>FASEB Journal</i> , 2011, 25, 326-336.	0.2	276
35	O1-05-01: APOE4 plays a role in $\text{A}\beta$ -mediated synapse loss in Alzheimer's disease. , 2011, 7, S103-S104.		0
36	Apolipoprotein E: Isoform Specific Differences in Tertiary Structure and Interaction with Amyloid- $\text{A}\beta$ in Human Alzheimer Brain. <i>PLoS ONE</i> , 2011, 6, e14586.	1.1	66

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37	Brain Oligomeric $\text{A}\beta$ -Amyloid but Not Total Amyloid Plaque Burden Correlates With Neuronal Loss and Astrocyte Inflammatory Response in Amyloid Precursor Protein/Tau Transgenic Mice. <i>Journal of Neuropathology and Experimental Neurology</i> , 2011, 70, 360-376.	0.9	111
38	Amyloid $\text{A}\beta$ peptide (1-40) elimination from cerebrospinal fluid involves low-density lipoprotein receptor-related protein 1 at the blood-brain barrier. <i>Journal of Neurochemistry</i> , 2011, 118, 407-415.	2.1	46
39	Characterization of Oligomer Formation of Amyloid $\text{A}\beta$ Peptide Using a Split-luciferase Complementation Assay. <i>Journal of Biological Chemistry</i> , 2011, 286, 27081-27091.	1.6	65
40	Substrate docking to $\text{A}\beta$ -secretase allows access of $\text{A}\beta$ -secretase modulators to an allosteric site. <i>Nature Communications</i> , 2010, 1, 130.	5.8	47
41	Amyloid $\text{A}\beta$ Induces the Morphological Neurodegenerative Triad of Spine Loss, Dendritic Simplification, and Neuritic Dystrophies through Calcineurin Activation. <i>Journal of Neuroscience</i> , 2010, 30, 2636-2649.	1.7	328
42	$\text{A}\beta$ Immunotherapy: Intracerebral Sequestration of $\text{A}\beta$ by an Anti- $\text{A}\beta$ Monoclonal Antibody 266 with High Affinity to Soluble $\text{A}\beta$ . <i>Journal of Neuroscience</i> , 2009, 29, 11393-11398.	1.7	103
43	Oligomeric amyloid $\text{A}\beta$ associates with postsynaptic densities and correlates with excitatory synapse loss near senile plaques. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4012-4017.	3.3	734
44	ATP-binding cassette transporter A1 (ABCA1) deficiency does not attenuate the brain-to-blood efflux transport of human amyloid $\text{A}\beta$ peptide (1-40) at the blood-brain barrier. <i>Neurochemistry International</i> , 2008, 52, 956-961.	1.9	50
45	The Low Density Lipoprotein Receptor-related Protein 1 Mediates Uptake of Amyloid $\text{A}\beta$ Peptides in an in Vitro Model of the Blood-Brain Barrier Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 34554-34562.	1.6	99
46	The Tottori (D7N) and English (H6R) Familial Alzheimer Disease Mutations Accelerate $\text{A}\beta$ Fibril Formation without Increasing Protofibril Formation. <i>Journal of Biological Chemistry</i> , 2007, 282, 4916-4923.	1.6	96
47	Immunoreactivity of Phage Library-derived Human Single-Chain Antibodies to Amyloid Beta Conformers In Vitro. <i>Journal of Biochemistry</i> , 2007, 143, 475-486.	0.9	17
48	Analytical Method for $\text{A}\beta$ -Amyloid Fibrils Using CE-Laser Induced Fluorescence and Its Application to Screening for Inhibitors of $\text{A}\beta$ -Amyloid Protein Aggregation. <i>Analytical Chemistry</i> , 2007, 79, 4887-4891.	3.2	41
49	Major Involvement of Low-Density Lipoprotein Receptor-Related Protein 1 in the Clearance of Plasma Free Amyloid $\text{A}\beta$ -Peptide by the Liver. <i>Pharmaceutical Research</i> , 2006, 23, 1407-1416.	1.7	100
50	CLAC Binds to Amyloid $\text{A}\beta$ Peptides through the Positively Charged Amino Acid Cluster within the Collagenous Domain 1 and Inhibits Formation of Amyloid Fibrils. <i>Journal of Biological Chemistry</i> , 2005, 280, 8596-8605.	1.6	52
51	Mostly Separate Distributions of CLAC- versus $\text{A}\beta$ 40- or Thioflavin S-Reactivities in Senile Plaques Reveal Two Distinct Subpopulations of $\text{A}\beta$ -Amyloid Deposits. <i>American Journal of Pathology</i> , 2004, 165, 273-281.	1.9	30
52	Molecular Identification of AMY, an Alzheimer Disease Amyloid-Associated Protein. <i>Journal of Neuropathology and Experimental Neurology</i> , 2003, 62, 1108-1117.	0.9	18
53	CLAC: a novel Alzheimer amyloid plaque component derived from a transmembrane precursor, CLAC-P/collagen type XXV. <i>EMBO Journal</i> , 2002, 21, 1524-1534.	3.5	184
54	Variant Alzheimer's disease with spastic paraparesis and cotton wool plaques is caused by PS-1 mutations that lead to exceptionally high amyloid- $\beta$ concentrations. <i>Annals of Neurology</i> , 2000, 48, 806-808.	2.8	135

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55	Variant Alzheimer's disease with spastic paraparesis and cotton wool plaques is caused by PSâ€¹1 mutations that lead to exceptionally high amyloidâ€² concentrations. <i>Annals of Neurology</i> , 2000, 48, 806-808.	2.8	3