

# A152T tau allele causes neurodegeneration that can be averted by autophagy induction

Brain

140, 1128-1146

DOI: [10.1093/brain/awx005](https://doi.org/10.1093/brain/awx005)

Citation Report

#	ARTICLE	IF	CITATIONS
1	An inhibitor of the proteasomal deubiquitinating enzyme USP14 induces tau elimination in cultured neurons. <i>Journal of Biological Chemistry</i> , 2017, 292, 19209-19225.	1.6	98
2	Human TAUP301L overexpression results in TAU hyperphosphorylation without neurofibrillary tangles in adult zebrafish brain. <i>Scientific Reports</i> , 2017, 7, 12959.	1.6	29
3	Studying Autophagy in Zebrafish. <i>Cells</i> , 2017, 6, 21.	1.8	59
4	Autophagy Plays an Important Role in Anti-inflammatory Mechanisms Stimulated by Alpha7 Nicotinic Acetylcholine Receptor. <i>Frontiers in Immunology</i> , 2017, 8, 553.	2.2	58
5	The neurological toxicity of heavy metals: A fish perspective. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2018, 208, 12-19.	1.3	64
6	Autophagy and lysosomal pathways in nervous system disorders. <i>Molecular and Cellular Neurosciences</i> , 2018, 91, 167-208.	1.0	22
7	Neuroprotective effect of paeoniflorin on okadaic acid-induced tau hyperphosphorylation via calpain/Akt/GSK-3 $\beta$ pathway in SH-SY5Y cells. <i>Brain Research</i> , 2018, 1690, 1-11.	1.1	29
8	Heparan Sulfate as a Therapeutic Target in Tauopathies: Insights From Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 163.	1.8	30
9	Is Alzheimer's Also a Stem Cell Disease? – The Zebrafish Perspective. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 159.	1.8	30
10	Seeing is believing: methods to monitor vertebrate autophagy <i>in vivo</i> . <i>Open Biology</i> , 2018, 8, .	1.5	32
11	Hydrogen attenuated oxidized low-density lipoprotein-induced inflammation through the stimulation of autophagy via sirtuin 1. <i>Experimental and Therapeutic Medicine</i> , 2018, 16, 4042-4048.	0.8	3
12	V363I and V363A mutated tau affect aggregation and neuronal dysfunction differently in <i>C. elegans</i> . <i>Neurobiology of Disease</i> , 2018, 117, 226-234.	2.1	11
13	Zebrafish as an Animal Model for Drug Discovery in Parkinson's Disease and Other Movement Disorders: A Systematic Review. <i>Frontiers in Neurology</i> , 2018, 9, 347.	1.1	103
14	Tau-Induced Pathology in Epilepsy and Dementia: Notions from Patients and Animal Models. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1092.	1.8	49
15	Autophagy as a promoter of longevity: insights from model organisms. <i>Nature Reviews Molecular Cell Biology</i> , 2018, 19, 579-593.	16.1	513
16	Promoting the clearance of neurotoxic proteins in neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2018, 17, 660-688.	21.5	370
17	Neuronal levels and sequence of tau modulate the power of brain rhythms. <i>Neurobiology of Disease</i> , 2018, 117, 181-188.	2.1	33
18	Hallmarks of Brain Aging: Adaptive and Pathological Modification by Metabolic States. <i>Cell Metabolism</i> , 2018, 27, 1176-1199.	7.2	721

#	ARTICLE	IF	CITATIONS
19	Evolving views of human genetic variation and its relationship to neurologic and psychiatric disease. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 147, 37-42.	1.0	3
20	Glutamatergic nervous system degeneration in a <i>C. elegans</i> TauA152T tauopathy model involves pathways of excitotoxicity and Ca <sup>2+</sup> dysregulation. Neurobiology of Disease, 2018, 117, 189-202.	2.1	17
21	Mechanisms of selective autophagy and mitophagy: Implications for neurodegenerative diseases. Neurobiology of Disease, 2019, 122, 23-34.	2.1	163
22	Genetic screen in a large series of patients with primary progressive aphasia. Alzheimer's and Dementia, 2019, 15, 553-560.	0.4	30
23	Emerging regulatory mechanisms and functions of autophagy in fish. Aquaculture, 2019, 511, 734212.	1.7	33
24	Felodipine induces autophagy in mouse brains with pharmacokinetics amenable to repurposing. Nature Communications, 2019, 10, 1817.	5.8	88
25	Tau Protein and Zebrafish Models for Tau-Induced Neurodegeneration. Journal of Alzheimer's Disease, 2019, 69, 339-353.	1.2	7
26	A farnesyltransferase inhibitor activates lysosomes and reduces tau pathology in mice with tauopathy. Science Translational Medicine, 2019, 11, .	5.8	75
27	A novel transgenic zebrafish line allows for in vivo quantification of autophagic activity in neurons. Autophagy, 2019, 15, 1322-1332.	4.3	14
28	<i>Mir223</i> restrains autophagy and promotes CNS inflammation by targeting ATG16L1. Autophagy, 2019, 15, 478-492.	4.3	104
29	Tau/MAPT disease-associated variant A152T alters tau function and toxicity via impaired retrograde axonal transport. Human Molecular Genetics, 2019, 28, 1498-1514.	1.4	26
30	Genetic enhancement of macroautophagy in vertebrate models of neurodegenerative diseases. Neurobiology of Disease, 2019, 122, 3-8.	2.1	15
31	Autophagy Induction as a Therapeutic Strategy for Neurodegenerative Diseases. Journal of Molecular Biology, 2020, 432, 2799-2821.	2.0	157
32	Developing Therapies for Neurodegenerative Disorders: Insights from Protein Aggregation and Cellular Stress Responses. Annual Review of Cell and Developmental Biology, 2020, 36, 165-189.	4.0	35
33	Selective autophagy: the rise of the zebrafish model. Autophagy, 2021, 17, 3297-3305.	4.3	10
34	Tauopathies: Deciphering Disease Mechanisms to Develop Effective Therapies. International Journal of Molecular Sciences, 2020, 21, 8948.	1.8	53
35	<i>Caenorhabditis elegans</i> Models to Investigate the Mechanisms Underlying Tau Toxicity in Tauopathies. Brain Sciences, 2020, 10, 838.	1.1	11
36	Effect of rs4719839 polymorphism on risk of ventilator-associated pneumonia, expression of microRNA-148 and autophagy-related 16-like 1 (ATG16L1). Journal of Cellular and Molecular Medicine, 2020, 24, 12599-12607.	1.6	4

#	ARTICLE	IF	CITATIONS
37	Alpha synuclein aggregates inhibit ciliogenesis and multiple functions of the centrosome. <i>Biology Open</i> , 2020, 9, .	0.6	9
38	cGMP via PKG activates 26S proteasomes and enhances degradation of proteins, including ones that cause neurodegenerative diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14220-14230.	3.3	57
39	Prolonged tau clearance and stress vulnerability rescue by pharmacological activation of autophagy in tauopathy neurons. <i>Nature Communications</i> , 2020, 11, 3258.	5.8	96
40	Genetic screening of a large series of North American sporadic and familial frontotemporal dementia cases. <i>Alzheimer's and Dementia</i> , 2020, 16, 118-130.	0.4	43
41	Autophagy regulation by acetylation—implications for neurodegenerative diseases. <i>Experimental and Molecular Medicine</i> , 2021, 53, 30-41.	3.2	27
42	Tau: Enabler of diverse brain disorders and target of rapidly evolving therapeutic strategies. <i>Science</i> , 2021, 371, .	6.0	133
43	Patterns of neuronal Rhes as a novel hallmark of tauopathies. <i>Acta Neuropathologica</i> , 2021, 141, 651-666.	3.9	6
44	Genetic Approaches Using Zebrafish to Study the Microbiota—Gut—Brain Axis in Neurological Disorders. <i>Cells</i> , 2021, 10, 566.	1.8	26
45	Zebrafish Models to Study New Pathways in Tauopathies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4626.	1.8	6
46	Autophagy and Tau Protein. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7475.	1.8	40
47	Advances of Zebrafish in Neurodegenerative Disease: From Models to Drug Discovery. <i>Frontiers in Pharmacology</i> , 2021, 12, 713963.	1.6	33
48	High-content image-based analysis and proteomic profiling identifies Tau phosphorylation inhibitors in a human iPSC-derived glutamatergic neuronal model of tauopathy. <i>Scientific Reports</i> , 2021, 11, 17029.	1.6	8
49	Non-Rodent Genetic Animal Models for Studying Tauopathy: Review of Drosophila, Zebrafish, and C. elegans Models. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8465.	1.8	12
52	Autophagy in healthy aging and disease. <i>Nature Aging</i> , 2021, 1, 634-650.	5.3	467
53	A zebrafish screen reveals Renin-angiotensin system inhibitors as neuroprotective via mitochondrial restoration in dopamine neurons. <i>ELife</i> , 2021, 10, .	2.8	21
54	Analysis of cathepsin B and cathepsin L treatment to clear toxic lysosomal protein aggregates in neuronal ceroid lipofuscinosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166205.	1.8	10
55	Autophagy-targeted therapy to modulate age-related diseases: Success, pitfalls, and new directions. <i>Current Research in Pharmacology and Drug Discovery</i> , 2021, 2, 100033.	1.7	8
56	Raising cGMP restores proteasome function and myelination in mice with a proteotoxic neuropathy. <i>Brain</i> , 2022, 145, 168-178.	3.7	7

#	ARTICLE	IF	CITATIONS
58	The Implications of Autophagy in Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2018, 15, 1283-1296.	0.7	46
59	Neurodegenerative Diseases and Autophagy. , 2018, , 299-343.		1
60	Normal ageing of the brain: Histological and biological aspects. <i>Revue Neurologique</i> , 2020, 176, 649-660.	0.6	11
61	Role of Academia: Drug Repurposing to Induce Autophagy for Treatment of Neurodegenerative Diseases. <i>RSC Drug Discovery Series</i> , 2022, , 14-23.	0.2	0
62	Multiple Mechanisms Converging on Transcription Factor EB Activation by the Natural Phenol Pterostilbene. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-19.	1.9	4
63	Pharmacological modulation of autophagy for Alzheimer's disease therapy: Opportunities and obstacles. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 1688-1706.	5.7	13
64	A New Zebrafish Model to Measure Neuronal $\beta$ -Synuclein Clearance In Vivo. <i>Genes</i> , 2022, 13, 868.	1.0	6
65	Exosomes, autophagy and ER stress pathways in human diseases: Cross-regulation and therapeutic approaches. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166484.	1.8	15
66	Autophagy and tau protein. , 2022, , 135-158.		0
67	Drug discovery in Alzheimer's disease by regulating autophagy. , 2022, , 263-290.		0
68	Zebrafish as a model organism for neurodegenerative disease. <i>Frontiers in Molecular Neuroscience</i> , 0, 15, .	1.4	18
69	An inducible expression system for the manipulation of autophagic flux <i>in vivo</i> . <i>Autophagy</i> , 0, , 1-14.	4.3	2
70	Alzheimer's disease preliminary screening in zebrafish integrating behavioral models and molecular markers. , 2023, , 3-16.		1
71	Tau Isoforms: Gaining Insight into MAPT Alternative Splicing. <i>International Journal of Molecular Sciences</i> , 2022, 23, 15383.	1.8	12
72	Hyperphosphorylated tau (p-tau) and drug discovery in the context of Alzheimer's disease and related tauopathies. <i>Drug Discovery Today</i> , 2023, 28, 103487.	3.2	12
73	COVID-19 and brain aging: what are the implications of immunosenescence?. <i>Current Aging Science</i> , 2022, 16, .	0.4	2
74	Age-related changes in tau and autophagy in human brain in the absence of neurodegeneration. <i>PLoS ONE</i> , 2023, 18, e0262792.	1.1	8
75	Zebrafish as a Model Organism for Studying Pathologic Mechanisms of Neurodegenerative Diseases and other Neural Disorders. <i>Cellular and Molecular Neurobiology</i> , 2023, 43, 2603-2620.	1.7	4

#	ARTICLE	IF	CITATIONS
76	Proteostasis failure exacerbates neuronal circuit dysfunction and sleep impairments in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2023, 18, .	4.4	4
82	Modeling Tauopathies in Zebrafish ( <i>Danio rerio</i> ). <i>Journal of Evolutionary Biochemistry and Physiology</i> , 2023, 59, 2055-2071.	0.2	0
83	Synthetic Activators of Autophagy. <i>Biochemistry (Moscow)</i> , 2024, 89, 27-52.	0.7	1