

# Benjamin Wolozin

## List of Publications by Year in descending order

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132  
papers

16,602  
citations

28274

55  
h-index

23533

111  
g-index

148  
all docs

148  
docs citations

148  
times ranked

18297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein Phase Separation: A New Phase in Cell Biology. Trends in Cell Biology, 2018, 28, 420-435.	7.9	1,439
2	Decreased Prevalence of Alzheimer Disease Associated With 3-Hydroxy-3-Methylglutaryl Coenzyme A Reductase Inhibitors. Archives of Neurology, 2000, 57, 1439.	4.5	1,369
3	Depletion of microglia and inhibition of exosome synthesis halt tau propagation. Nature Neuroscience, 2015, 18, 1584-1593.	14.8	1,142
4	CHIP and Hsp70 regulate tau ubiquitination, degradation and aggregation. Human Molecular Genetics, 2004, 13, 703-714.	2.9	613
5	Role of Stress Granules and RNA-Binding Proteins in Neurodegeneration: A Mini-Review. Gerontology, 2013, 59, 524-533.	2.8	553
6	Parkin Protects against the Toxicity Associated with Mutant $\alpha$ -Synuclein. Neuron, 2002, 36, 1007-1019.	8.1	542
7	$\alpha$ -Synuclein Shares Physical and Functional Homology with 14-3-3 Proteins. Journal of Neuroscience, 1999, 19, 5782-5791.	3.6	513
8	Tar DNA Binding Protein-43 (TDP-43) Associates with Stress Granules: Analysis of Cultured Cells and Pathological Brain Tissue. PLoS ONE, 2010, 5, e13250.	2.5	509
9	The A53T $\alpha$ -Synuclein Mutation Increases Iron-Dependent $\alpha$ Aggregation and Toxicity. Journal of Neuroscience, 2000, 20, 6048-6054.	3.6	504
10	Stress granules and neurodegeneration. Nature Reviews Neuroscience, 2019, 20, 649-666.	10.2	452
11	Midlife Serum Cholesterol and Increased Risk of Alzheimer's and Vascular Dementia Three Decades Later. Dementia and Geriatric Cognitive Disorders, 2009, 28, 75-80.	1.5	422
12	Presenilin 1 associates with glycogen synthase kinase-3 $\beta$ and its substrate tau. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9637-9641.	7.1	396
13	Use of angiotensin receptor blockers and risk of dementia in a predominantly male population: prospective cohort analysis. BMJ: British Medical Journal, 2010, 340, b5465-b5465.	2.3	393
14	Aggregated and Monomeric $\alpha$ -Synuclein Bind to the S6 $\alpha$ Proteasomal Protein and Inhibit Proteasomal Function. Journal of Biological Chemistry, 2003, 278, 11753-11759.	3.4	364
15	Simvastatin is associated with a reduced incidence of dementia and Parkinson's disease. BMC Medicine, 2007, 5, 20.	5.5	334
16	Regulated protein aggregation: stress granules and neurodegeneration. Molecular Neurodegeneration, 2012, 7, 56.	10.8	271
17	Local RNA Translation at the Synapse and in Disease: Figure 1.. Journal of Neuroscience, 2011, 31, 16086-16093.	3.6	264
18	Cholesterol and the Biology of Alzheimer's Disease. Neuron, 2004, 41, 7-10.	8.1	263

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19	Interaction of tau with the RNA-Binding Protein TIA1 Regulates tau Pathophysiology and Toxicity. <i>Cell Reports</i> , 2016, 15, 1455-1466.	6.4	260
20	Differential Expression of Cholesterol Hydroxylases in Alzheimer's Disease. <i>Journal of Biological Chemistry</i> , 2004, 279, 34674-34681.	3.4	238
21	Similar Patterns of Mitochondrial Vulnerability and Rescue Induced by Genetic Modification of $\hat{\mu}$ -Synuclein, Parkin, and DJ-1 in <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 42655-42668.	3.4	223
22	LRRK2 Modulates Vulnerability to Mitochondrial Dysfunction in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2009, 29, 9210-9218.	3.6	220
23	Reducing the RNA binding protein TIA1 protects against tau-mediated neurodegeneration in vivo. <i>Nature Neuroscience</i> , 2018, 21, 72-80.	14.8	189
24	Contrasting Pathology of the Stress Granule Proteins TIA-1 and G3BP in Tauopathies. <i>Journal of Neuroscience</i> , 2012, 32, 8270-8283.	3.6	186
25	Magnesium Inhibits Spontaneous and Iron-induced Aggregation of $\hat{\mu}$ -Synuclein. <i>Journal of Biological Chemistry</i> , 2002, 277, 16116-16123.	3.4	184
26	Alzheimer-related neuronal protein A68: Specificity and distribution. <i>Annals of Neurology</i> , 1987, 22, 521-526.	5.3	178
27	Assessment of the emergence of Alzheimer's disease following coronary artery bypass graft surgery or percutaneous transluminal coronary angioplasty <sup>1</sup> . <i>Journal of Alzheimer's Disease</i> , 2005, 7, 319-324.	2.6	171
28	Mitochondrial associated metabolic proteins are selectively oxidized in A30P $\hat{\mu}$ -synuclein transgenic mice—a model of familial Parkinson's disease. <i>Neurobiology of Disease</i> , 2005, 18, 492-498.	4.4	157
29	Direct association of presenilin-1 with $\hat{\mu}$ -catenin. <i>FEBS Letters</i> , 1998, 433, 73-77.	2.8	151
30	Pathological Tau Promotes Neuronal Damage by Impairing Ribosomal Function and Decreasing Protein Synthesis. <i>Journal of Neuroscience</i> , 2016, 36, 1001-1007.	3.6	149
31	Requirement of the Familial Alzheimer's Disease Gene PS2 for Apoptosis. <i>Journal of Biological Chemistry</i> , 1996, 271, 31025-31028.	3.4	127
32	$\hat{\mu}$ -Synuclein Interacts with Phospholipase D Isozymes and Inhibits Pervanadate-induced Phospholipase D Activation in Human Embryonic Kidney-293 Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 12334-12342.	3.4	118
33	Dysregulation of RNA Binding Protein Aggregation in Neurodegenerative Disorders. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 89.	2.9	117
34	Leptin: A Novel Therapeutic Strategy for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2009, 16, 731-740.	2.6	114
35	LRRK2 and RAB7L1 coordinately regulate axonal morphology and lysosome integrity in diverse cellular contexts. <i>Scientific Reports</i> , 2016, 6, 29945.	3.3	111
36	RNA binding proteins co-localize with small tau inclusions in tauopathy. <i>Acta Neuropathologica Communications</i> , 2018, 6, 71.	5.2	108

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37	Rac1 Protein Rescues Neurite Retraction Caused by G2019S Leucine-rich Repeat Kinase 2 (LRRK2). <i>Journal of Biological Chemistry</i> , 2011, 286, 16140-16149.	3.4	104
38	Longitudinal stability of CSF tau levels in Alzheimer patients. <i>Biological Psychiatry</i> , 1999, 46, 750-755.	1.3	103
39	ALS-Linked Mutations Enlarge TDP-43-Enriched Neuronal RNA Granules in the Dendritic Arbor. <i>Journal of Neuroscience</i> , 2014, 34, 4167-4174.	3.6	101
40	Pathological stress granules in Alzheimer's disease. <i>Brain Research</i> , 2014, 1584, 52-58.	2.2	99
41	MKK6 binds and regulates expression of Parkinson's disease-related protein LRRK2. <i>Journal of Neurochemistry</i> , 2010, 112, 1593-1604.	3.9	94
42	The Parkinson's Disease Associated LRRK2 Exhibits Weaker In Vitro Phosphorylation of 4E-BP Compared to Autophosphorylation. <i>PLoS ONE</i> , 2010, 5, e8730.	2.5	86
43	Interaction of tau with HNRNPA2B1 and N6-methyladenosine RNA mediates the progression of tauopathy. <i>Molecular Cell</i> , 2021, 81, 4209-4227.e12.	9.7	84
44	Impairment of PARK14-dependent Ca <sup>2+</sup> signalling is a novel determinant of Parkinson's disease. <i>Nature Communications</i> , 2016, 7, 10332.	12.8	82
45	Dysregulation of autophagy and stress granule-related proteins in stress-driven Tau pathology. <i>Cell Death and Differentiation</i> , 2019, 26, 1411-1427.	11.2	80
46	Increased cytoplasmic TDP-43 reduces global protein synthesis by interacting with RACK1 on polyribosomes. <i>Human Molecular Genetics</i> , 2017, 26, 1407-1418.	2.9	78
47	Mechanisms of Neurodegenerative Disorders. <i>Archives of Neurology</i> , 2000, 57, 793.	4.5	76
48	Cholesterol, statins and dementia. <i>Current Opinion in Lipidology</i> , 2004, 15, 667-672.	2.7	76
49	Leucine-rich repeat kinase 2 induces $\alpha$ -synuclein expression via the extracellular signal-regulated kinase pathway. <i>Cellular Signalling</i> , 2010, 22, 821-827.	3.6	76
50	TIA1 regulates the generation and response to toxic tau oligomers. <i>Acta Neuropathologica</i> , 2019, 137, 259-277.	7.7	74
51	TIA1 potentiates tau phase separation and promotes generation of toxic oligomeric tau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	72
52	Co-association of parkin and $\alpha$ -synuclein. <i>NeuroReport</i> , 2001, 12, 2839-2843.	1.2	71
53	Continuous culture of neuronal cells from adult human olfactory epithelium. <i>Journal of Molecular Neuroscience</i> , 1992, 3, 137-146.	2.3	69
54	Oxidative damage in the olfactory system in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2003, 106, 552-556.	7.7	67

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55	The heat shock transcription factor Hsf1 is downregulated in DNA damage-associated senescence, contributing to the maintenance of senescence phenotype. <i>Aging Cell</i> , 2012, 11, 617-627.	6.7	66
56	A High-Content Screen Identifies Novel Compounds That Inhibit Stress-Induced TDP-43 Cellular Aggregation and Associated Cytotoxicity. <i>Journal of Biomolecular Screening</i> , 2014, 19, 44-56.	2.6	56
57	Dysregulation of RNA Splicing in Tauopathies. <i>Cell Reports</i> , 2019, 29, 4377-4388.e4.	6.4	55
58	Mutations in LRRK2 potentiate age-related impairment of autophagic flux. <i>Molecular Neurodegeneration</i> , 2015, 10, 26.	10.8	54
59	Physiological protein aggregation run amuck: stress granules and the genesis of neurodegenerative disease. <i>Discovery Medicine</i> , 2014, 17, 47-52.	0.5	54
60	Parkin is metabolized by the ubiquitin/proteasome system. <i>NeuroReport</i> , 2000, 11, 2635-2638.	1.2	52
61	Olfactory neuroblasts from Alzheimer donors: Studies on APP processing and cell regulation. <i>Biological Psychiatry</i> , 1993, 34, 824-838.	1.3	51
62	Pathological Proteins in Parkinson's Disease: Focus on the Proteasome. <i>Journal of Molecular Neuroscience</i> , 2004, 24, 425-442.	2.3	50
63	$\beta$ -Synuclein Reduces Proteasomal Inhibition by $\beta$ -Synuclein but Not $\beta$ -Synuclein. <i>Journal of Biological Chemistry</i> , 2005, 280, 7562-7569.	3.4	49
64	The Cellular Biochemistry of Cholesterol and Statins: Insights into the Pathophysiology and Therapy of Alzheimer's Disease. <i>CNS Neuroscience &amp; Therapeutics</i> , 2004, 10, 127-146.	4.0	48
65	BrainMap Elucidates the Macromolecular Connectivity Landscape of Mammalian Brain. <i>Cell Systems</i> , 2020, 10, 333-350.e14.	6.2	48
66	A Parkinson's disease gene regulatory network identifies the signaling protein RGS2 as a modulator of LRRK2 activity and neuronal toxicity. <i>Human Molecular Genetics</i> , 2014, 23, 4887-4905.	2.9	45
67	Redox Proteomics Analyses of the Influence of Co-Expression of Wild-Type or Mutated LRRK2 and Tau on <i>C. elegans</i> Protein Expression and Oxidative Modification: Relevance to Parkinson Disease. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1490-1506.	5.4	43
68	Watching Worms Whither. <i>Progress in Molecular Biology and Translational Science</i> , 2011, 100, 499-514.	1.7	42
69	Induced Pluripotent Stem Cell Modeling of Multisystemic, Hereditary Transthyretin Amyloidosis. <i>Stem Cell Reports</i> , 2013, 1, 451-463.	4.8	42
70	Regulation of Amyloid Precursor Protein Processing by Presenilin 1 (PS1) and PS2 in PS1 Knockout Cells. <i>Journal of Biological Chemistry</i> , 2000, 275, 215-222.	3.4	41
71	Mechanisms of Neurodegenerative Disorders. <i>Archives of Neurology</i> , 2000, 57, 801.	4.5	41
72	Cyp46 (24S-Cholesterol Hydroxylase). <i>Archives of Neurology</i> , 2003, 60, 16.	4.5	40

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73	A Mutation in <i>Hnrnp1</i> That Decreases Methamphetamine-Induced Reinforcement, Reward, and Dopamine Release and Increases Synaptosomal hnRNP H and Mitochondrial Proteins. <i>Journal of Neuroscience</i> , 2020, 40, 107-130.	3.6	39
74	Regulation of Physiologic Actions of LRRK2: Focus on Autophagy. <i>Neurodegenerative Diseases</i> , 2012, 10, 238-241.	1.4	38
75	Investigating Convergent Actions of Genes Linked to Familial Parkinson's Disease. <i>Neurodegenerative Diseases</i> , 2008, 5, 182-185.	1.4	37
76	Heavy Metal Neurotoxicants Induce ALS-Linked TDP-43 Pathology. <i>Toxicological Sciences</i> , 2019, 167, 105-115.	3.1	37
77	Human Olfactory Neuroepithelial Cells: Tyrosine Phosphorylation and Process Extension Are Increased by the Combination of IL-1 $\beta$ , IL-6, NGF, and bFGF. <i>Experimental Neurology</i> , 1996, 142, 179-194.	4.1	35
78	Neuronal-Specific Overexpression of a Mutant Valosin-Containing Protein Associated with IBMPFD Promotes Aberrant Ubiquitin and TDP-43 Accumulation and Cognitive Dysfunction in Transgenic Mice. <i>American Journal of Pathology</i> , 2013, 183, 504-515.	3.8	35
79	Amylin receptor ligands reduce the pathological cascade of Alzheimer's disease. <i>Neuropharmacology</i> , 2017, 119, 170-181.	4.1	34
80	Interventions for heart disease and their effects on Alzheimer's disease. <i>Neurological Research</i> , 2006, 28, 630-636.	1.3	33
81	Dioxins and related environmental contaminants increase TDP-43 levels. <i>Molecular Neurodegeneration</i> , 2017, 12, 35.	10.8	32
82	FMR1 gene expression in olfactory neuroblasts from two males with fragile X syndrome. , 1999, 82, 25-30.		30
83	Oxysterol-binding protein-1 (OSBP1) modulates processing and trafficking of the amyloid precursor protein. <i>Molecular Neurodegeneration</i> , 2008, 3, 5.	10.8	30
84	TDP-43: A new player on the AD field?. <i>Experimental Neurology</i> , 2012, 237, 90-95.	4.1	25
85	Monomeric C-reactive protein via endothelial CD31 for neurovascular inflammation in an ApoE genotype-dependent pattern: A risk factor for Alzheimer's disease?. <i>Aging Cell</i> , 2021, 20, e13501.	6.7	25
86	Interaction of LRRK2 with kinase and GTPase signaling cascades. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 64.	2.9	24
87	Reduction of the RNA Binding Protein TIA1 Exacerbates Neuroinflammation in Tauopathy. <i>Frontiers in Neuroscience</i> , 2020, 14, 285.	2.8	24
88	The Pathophysiology of Tau and Stress Granules in Disease. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1184, 359-372.	1.6	23
89	Regulation of Autophagy by LRRK2 in <i>Caenorhabditis elegans</i> . <i>Neurodegenerative Diseases</i> , 2014, 13, 110-113.	1.4	22
90	Tau Oligomers and Fibrils Exhibit Differential Patterns of Seeding and Association With RNA Binding Proteins. <i>Frontiers in Neurology</i> , 2020, 11, 579434.	2.4	21

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91	RNA Binding Proteins and the Genesis of Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2015, 822, 11-15.	1.6	21
92	Simvastatin inhibits protein isoprenylation in the brain. <i>Neuroscience</i> , 2016, 329, 264-274.	2.3	20
93	Baseline Telomere Length and Effects of a Multidomain Lifestyle Intervention on Cognition: The FINGER Randomized Controlled Trial. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 1459-1470.	2.6	20
94	Alzheimer's Disease: Many Failed Trials, So Where Do We Go from Here?. <i>Journal of Investigative Medicine</i> , 2020, 68, 1135-1140.	1.6	17
95	Directed evolution of a picomolar-affinity, high-specificity antibody targeting phosphorylated tau. <i>Journal of Biological Chemistry</i> , 2018, 293, 12081-12094.	3.4	16
96	The Evolution of Phase-Separated TDP-43 in Stress. <i>Neuron</i> , 2019, 102, 265-267.	8.1	16
97	The pathophysiology of neurodegenerative disease: Disturbing the balance between phase separation and irreversible aggregation. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 174, 187-223.	1.7	16
98	Crohn's and Parkinson's Disease-Associated LRRK2 Mutations Alter Type II Interferon Responses in Human CD14+ Blood Monocytes Ex Vivo. <i>Journal of Neuroimmune Pharmacology</i> , 2020, 15, 794-800.	4.1	15
99	Beneficial association of angiotensin-converting enzyme inhibitors and statins on the occurrence of possible Alzheimer's disease after traumatic brain injury. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 33.	6.2	15
100	Protein Interaction Network Biology in Neuroscience. <i>Proteomics</i> , 2021, 21, e1900311.	2.2	13
101	5' UTR variants in the quantitative trait gene <i>Hnrnp1</i> support reduced 5' UTR usage and hnRNP H protein as a molecular mechanism underlying reduced methamphetamine sensitivity. <i>FASEB Journal</i> , 2020, 34, 9223-9244.	0.5	12
102	Telomere Length Change in a Multidomain Lifestyle Intervention to Prevent Cognitive Decline: A Randomized Clinical Trial. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 491-498.	3.6	11
103	Protein alterations in olfactory neuroblasts from Alzheimer donors. <i>Neurobiology of Aging</i> , 1994, 15, 675-680.	3.1	10
104	The unconscious in economic decision-making: Convergent voices. <i>Journal of Socio-Economics</i> , 2007, 36, 856-864.	1.0	9
105	Statins and therapy of Alzheimer's disease: questions of efficacy versus trial design. <i>Alzheimer's Research and Therapy</i> , 2011, 4, 3.	6.2	9
106	Effects of Amylin Against Amyloid- $\beta$ -Induced Tauopathy and Synapse Loss in Primary Neurons. <i>Journal of Alzheimer's Disease</i> , 2019, 70, 1025-1040.	2.6	7
107	The players on the $\beta$ -secretase team. <i>Nature Medicine</i> , 2006, 12, 766-767.	30.7	6
108	Changes in neuronal immunofluorescence in the C- versus N-terminal domains of hnRNP H following D1 dopamine receptor activation. <i>Neuroscience Letters</i> , 2018, 684, 109-114.	2.1	6

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109	RNA Binding Proteins in Health and Disease. , 2017, , 299-312.		4
110	Oligomeric tau disrupts nuclear envelope via binding to lamin proteins and lamin B receptor.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e054521.	0.8	3
111	The Scientist's Pledge. Academic Medicine, 2013, 88, 743.	1.6	2
112	Single cell transcriptomic profiling of neurodegeneration mediated by tau in a novel 3D neuron-astrocyte coculture model. Alzheimer's and Dementia, 2021, 17, e058551.	0.8	2
113	Molecular Mechanisms of Neurodegenerative Disorders. , 0, , 377-409.		1
114	O4-04-01: Microglial Exosomes Propagate Tau Protein from the Entorhinal Cortex to the Hippocampus: An Early Pathophysiology of Alzheimer's Disease. , 2016, 12, P339-P340.		1
115	Cholesterol and Alzheimer's Disease. , 2007, , 142-158.		1
116	Differential Regulation of APP Secretion by Apolipoprotein E3 and E4. , 1996, , 97-102.		1
117	Macromolecular Connectivity Landscape of Mammalian Brain. SSRN Electronic Journal, 0, , .	0.4	1
118	Peering into proteolysis with presenilins. Journal of Alzheimer's Disease, 2001, 3, 191-193.	2.6	0
119	Syk and Yea Shall Find. EBioMedicine, 2015, 2, 1590-1591.	6.1	0
120	O4-12-05: Interaction between microtubule-associated protein tau and RNA binding proteins stimulates tau misfolding and stress granule formation. , 2015, 11, P300-P301.		0
121	P4-081: Environmental Stress and Glucocorticoids Trigger an HDAC6-Dependent Induction of Stress Granules and TAU Aggregation: Implications For Alzheimer's Disease. Alzheimer's and Dementia, 2016, 12, P1044.	0.8	0
122	Dendritic TAU-telidige. EBioMedicine, 2017, 20, 3-4.	6.1	0
123	[P3-574]: ASSOCIATIONS OF LEUCOCYTE TELOMERE LENGTH WITH BRAIN MRI AND PIB-PET MEASURES: THE FINGER STUDY. Alzheimer's and Dementia, 2017, 13, P1199.	0.8	0
124	[P4-029]: AMYLIN RECEPTOR LIGANDS REDUCE THE PATHOLOGICAL CASCADE OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2017, 13, P1266.	0.8	0
125	[O2-03-03]: TAU-INDUCED NEURODEGENERATION IS MEDIATED BY RNA BINDING PROTEINS. Alzheimer's and Dementia, 2017, 13, P555.	0.8	0
126	Disrupted in Dementia. Biological Psychiatry, 2018, 84, 474-475.	1.3	0

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127	Regulation of ribosomal function by oligomeric tau. <i>Alzheimer's and Dementia</i> , 2020, 16, e039190.	0.8	0
128	Interpreting Clinical Studies of Putative Therapeutics for Alzheimer's Disease: The Case of Statins and NSAIDs. , 2007, , 296-308.		0
129	Pharmacoepidemiological Studies Using the Veterans Affairs Decision Support System. , 0, , .		0
130	A Complex Containing HNRNPA2B1 and N <sup>6</sup> -Methyladenosine Modified Transcripts Mediates Actions of Toxic Tau Oligomers. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
131	PRESENILINS AND THEIR ROLE IN APOPTOSIS. , 0, , .		0
132	Single cell transcriptomic profiling of tau pathophysiology in a novel 3D neural-glia coculture model.. <i>Alzheimer's and Dementia</i> , 2021, 17 Suppl 3, e054138.	0.8	0