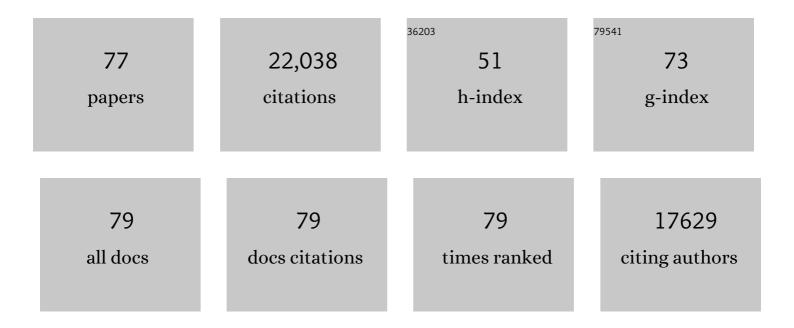
Dominic M Walsh

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Naturally secreted oligomers of amyloid \hat{I}^2 protein potently inhibit hippocampal long-term potentiation in vivo. Nature, 2002, 416, 535-539.	13.7	3,979
2	Amyloid-β protein dimers isolated directly from Alzheimer's brains impair synaptic plasticity and memory. Nature Medicine, 2008, 14, 837-842.	15.2	3,225
3	Natural oligomers of the amyloid-Î ² protein specifically disrupt cognitive function. Nature Neuroscience, 2005, 8, 79-84.	7.1	1,595
4	Natural Oligomers of the Alzheimer Amyloid-Â Protein Induce Reversible Synapse Loss by Modulating an NMDA-Type Glutamate Receptor-Dependent Signaling Pathway. Journal of Neuroscience, 2007, 27, 2866-2875.	1.7	1,445
5	Deciphering the Molecular Basis of Memory Failure in Alzheimer's Disease. Neuron, 2004, 44, 181-193.	3.8	1,127
6	Amyloid β-Protein Fibrillogenesis. Journal of Biological Chemistry, 1997, 272, 22364-22372.	1.6	967
7	Protofibrillar Intermediates of Amyloid β-Protein Induce Acute Electrophysiological Changes and Progressive Neurotoxicity in Cortical Neurons. Journal of Neuroscience, 1999, 19, 8876-8884.	1.7	926
8	Soluble Oligomers of Amyloid β Protein Facilitate Hippocampal Long-Term Depression by Disrupting Neuronal Glutamate Uptake. Neuron, 2009, 62, 788-801.	3.8	818
9	Soluble amyloid β-protein dimers isolated from Alzheimer cortex directly induce Tau hyperphosphorylation and neuritic degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5819-5824.	3.3	770
10	Amyloid β protein immunotherapy neutralizes Aβ oligomers that disrupt synaptic plasticity in vivo. Nature Medicine, 2005, 11, 556-561.	15.2	485
11	A vicious cycle of β amyloid–dependent neuronal hyperactivation. Science, 2019, 365, 559-565.	6.0	407
12	Alzheimer's disease: synaptic dysfunction and A^{2} . Molecular Neurodegeneration, 2009, 4, 48.	4.4	388
13	Amyloid β Protein Dimer-Containing Human CSF Disrupts Synaptic Plasticity: Prevention by Systemic Passive Immunization. Journal of Neuroscience, 2008, 28, 4231-4237.	1.7	293
14	Certain Inhibitors of Synthetic Amyloid Â-Peptide (AÂ) Fibrillogenesis Block Oligomerization of Natural AÂ and Thereby Rescue Long-Term Potentiation. Journal of Neuroscience, 2005, 25, 2455-2462.	1.7	286
15	Interaction between prion protein and toxic amyloid \hat{I}^2 assemblies can be therapeutically targeted at multiple sites. Nature Communications, 2011, 2, 336.	5.8	263
16	Large Soluble Oligomers of Amyloid β-Protein from Alzheimer Brain Are Far Less Neuroactive Than the Smaller Oligomers to Which They Dissociate. Journal of Neuroscience, 2017, 37, 152-163.	1.7	262
17	A critical appraisal of the pathogenic protein spread hypothesis of neurodegeneration. Nature Reviews Neuroscience, 2016, 17, 251-260.	4.9	251
18	A facile method for expression and purification of the Alzheimer's diseaseâ€associated amyloid βâ€peptide. FEBS Journal, 2009, 276, 1266-1281.	2.2	237

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19	An improved method of preparing the amyloid β-protein for fibrillogenesis and neurotoxicity experiments. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2000, 7, 166-178.	1.4	232
20	Amyloid β-Protein Dimers Rapidly Form Stable Synaptotoxic Protofibrils. Journal of Neuroscience, 2010, 30, 14411-14419.	1.7	232
21	The presence of sodium dodecyl sulphate-stable Aβ dimers is strongly associated with Alzheimer-type dementia. Brain, 2010, 133, 1328-1341.	3.7	229
22	Alzheimer's Disease Brain-Derived Amyloid-β-Mediated Inhibition of LTP <i>In Vivo</i> Is Prevented by Immunotargeting Cellular Prion Protein. Journal of Neuroscience, 2011, 31, 7259-7263.	1.7	215
23	Developmental Regulation of Mitochondrial Apoptosis by c-Myc Governs Age- and Tissue-Specific Sensitivity to Cancer Therapeutics. Cancer Cell, 2017, 31, 142-156.	7.7	190
24	mGlu5 receptors and cellular prion protein mediate amyloid-β-facilitated synaptic long-term depression in vivo. Nature Communications, 2014, 5, 3374.	5.8	157
25	Detection of Aggregation-Competent Tau in Neuron-Derived Extracellular Vesicles. International Journal of Molecular Sciences, 2018, 19, 663.	1.8	140
26	C-Terminally Truncated Forms of Tau, But Not Full-Length Tau or Its C-Terminal Fragments, Are Released from Neurons Independently of Cell Death. Journal of Neuroscience, 2015, 35, 10851-10865.	1.7	131
27	miR-212 and miR-132 Are Downregulated in Neurally Derived Plasma Exosomes of Alzheimer's Patients. Frontiers in Neuroscience, 2019, 13, 1208.	1.4	129
28	Soluble Aβ oligomers impair hippocampal LTP by disrupting glutamatergic/GABAergic balance. Neurobiology of Disease, 2016, 85, 111-121.	2.1	120
29	Autoregulated paracellular clearance of amyloid-β across the blood-brain barrier. Science Advances, 2015, 1, e1500472.	4.7	113
30	Amyloid-β nanotubes are associated with prion protein-dependent synaptotoxicity. Nature Communications, 2013, 4, 2416.	5.8	112
31	PrP is a central player in toxicity mediated by soluble aggregates of neurodegeneration-causing proteins. Acta Neuropathologica, 2020, 139, 503-526.	3.9	110
32	APP Homodimers Transduce an Amyloid-β-Mediated Increase in Release Probability at Excitatory Synapses. Cell Reports, 2014, 7, 1560-1576.	2.9	109
33	Human Brain-Derived AÎ ² Oligomers Bind to Synapses and Disrupt Synaptic Activity in a Manner That Requires APP. Journal of Neuroscience, 2017, 37, 11947-11966.	1.7	108
34	Alzheimer's Disease and the Amyloid β-Protein. Progress in Molecular Biology and Translational Science, 2012, 107, 101-124.	0.9	106
35	Aggregation and Metalâ€Binding Properties of Mutant Forms of the Amyloid Aβ Peptide of Alzheimer's Disease. Journal of Neurochemistry, 1996, 66, 740-747.	2.1	105
36	Diffusible, highly bioactive oligomers represent a critical minority of soluble Aβ in Alzheimer's disease brain. Acta Neuropathologica, 2018, 136, 19-40.	3.9	100

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37	γ-Secretase Cleavage and Binding to FE65 Regulate the Nuclear Translocation of the Intracellular C-Terminal Domain (ICD) of the APP Family of Proteinsâ€. Biochemistry, 2003, 42, 6664-6673.	1.2	94
38	Learnings about the complexity of extracellular tau aid development of a bloodâ€based screen for Alzheimer's disease. Alzheimer's and Dementia, 2019, 15, 487-496.	0.4	94
39	Aggregation and catabolism of disease-associated intra-Aβ mutations: reduced proteolysis of AβA21G by neprilysin. Neurobiology of Disease, 2008, 31, 442-450.	2.1	88
40	Amyloid β-protein and beyond: the path forward in Alzheimer's disease. Current Opinion in Neurobiology, 2020, 61, 116-124.	2.0	87
41	Secreted Amyloid β-Proteins in a Cell Culture Model Include N-Terminally Extended Peptides That Impair Synaptic Plasticity. Biochemistry, 2014, 53, 3908-3921.	1.2	85
42	A highly sensitive novel immunoassay specifically detects low levels of soluble Aβ oligomers in human cerebrospinal fluid. Alzheimer's Research and Therapy, 2015, 7, 14.	3.0	78
43	Identification of neurotoxic cross-linked amyloid-β dimers in the Alzheimer's brain. Brain, 2019, 142, 1441-1457.	3.7	74
44	AÎ ² dimers differ from monomers in structural propensity, aggregation paths and population of synaptotoxic assemblies. Biochemical Journal, 2014, 461, 413-426.	1.7	71
45	Target engagement in an alzheimer trial: Crenezumab lowers amyloid Î ² oligomers in cerebrospinal fluid. Annals of Neurology, 2019, 86, 215-224.	2.8	70
46	Peripheral Administration of a Humanized Anti-PrP Antibody Blocks Alzheimer's Disease AÎ ² Synaptotoxicity. Journal of Neuroscience, 2014, 34, 6140-6145.	1.7	68
47	Cellular Prion Protein Mediates the Disruption of Hippocampal Synaptic Plasticity by Soluble Tau <i>In Vivo</i> . Journal of Neuroscience, 2018, 38, 10595-10606.	1.7	66
48	Non-Fibrillar Oligomeric Amyloid-β within Synapses. Journal of Alzheimer's Disease, 2016, 53, 787-800.	1.2	65
49	Extracellular Forms of Aβ and Tau from iPSC Models of Alzheimer's Disease Disrupt Synaptic Plasticity. Cell Reports, 2018, 23, 1932-1938.	2.9	60
50	N-Terminal Extensions Retard Al̂ ² 42 Fibril Formation but Allow Cross-Seeding and Coaggregation with Al̂ ² 42. Journal of the American Chemical Society, 2015, 137, 14673-14685.	6.6	58
51	Isolation of Low-n Amyloid Î2-Protein Oligomers from Cultured Cells, CSF, and Brain. Methods in Molecular Biology, 2010, 670, 33-44.	0.4	54
52	Alzheimer brain-derived amyloid β-protein impairs synaptic remodeling and memory consolidation. Neurobiology of Aging, 2013, 34, 1315-1327.	1.5	54
53	The aqueous phase of Alzheimer's disease brain contains assemblies built from â^¼4 and â^¼7 kDa Aβ species. Alzheimer's and Dementia, 2015, 11, 1286-1305.	0.4	54
54	An in vitro paradigm to assess potential anti-Aβ antibodies for Alzheimer's disease. Nature Communications, 2018, 9, 2676.	5.8	50

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55	The levels of water-soluble and triton-soluble Aβ are increased in Alzheimer's disease brain. Brain Research, 2012, 1450, 138-147.	1.1	47
56	Anti-AÎ ² antibodies incapable of reducing cerebral AÎ ² oligomers fail to attenuate spatial reference memory deficits in J20 mice. Neurobiology of Disease, 2015, 82, 372-384.	2.1	37
57	Laboratory evolution of a sortase enzyme that modifies amyloid- \hat{l}^2 protein. Nature Chemical Biology, 2021, 17, 317-325.	3.9	34
58	Tau immunization: a cautionary tale?. Neurobiology of Aging, 2015, 36, 1316-1332.	1.5	28
59	Simultaneous measurement of a range of particle sizes during Aβ1–42 fibrillogenesis quantified using fluorescence correlation spectroscopy. Biochemical and Biophysical Research Communications, 2014, 448, 195-199.	1.0	25
60	Soluble tau aggregates inhibit synaptic long-term depression and amyloid β-facilitated LTD in vivo. Neurobiology of Disease, 2019, 127, 582-590.	2.1	25
61	Neurotransmitter receptor and time dependence of the synaptic plasticity disrupting actions of Alzheimer's disease Al² <i>in vivo</i> . Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130147.	1.8	23
62	A Human Monoclonal IgG That Binds Aβ Assemblies and Diverse Amyloids Exhibits Anti-Amyloid Activities <i>In Vitro</i> and <i>In Vivo</i> . Journal of Neuroscience, 2015, 35, 6265-6276.	1.7	23
63	βâ€Secretase cleavage is not required for generation of the intracellular Câ€ŧerminal domain of the amyloid precursor family of proteins. FEBS Journal, 2010, 277, 1503-1518.	2.2	22
64	The Aggregation Paths and Products of Aβ42 Dimers Are Distinct from Those of the Aβ42 Monomer. Biochemistry, 2016, 55, 6150-6161.	1.2	22
65	Intracerebroventricular Administration of Amyloid β-protein Oligomers Selectively Increases Dorsal Hippocampal Dialysate Clutamate Levels in the Awake Rat. Sensors, 2008, 8, 7428-7437.	2.1	20
66	Dynamics of plasma biomarkers in Down syndrome: the relative levels of AÎ ² 42 decrease with age, whereas NT1 tau and NfL increase. Alzheimer's Research and Therapy, 2020, 12, 27.	3.0	20
67	The Many Faces of Aβ: Structures and Activity. Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents, 2003, 3, 277-291.	0.2	19
68	Peripheral Interventions Enhancing Brain Glutamate Homeostasis Relieve Amyloid β- and TNFα- Mediated Synaptic Plasticity Disruption in the Rat Hippocampus. Cerebral Cortex, 2017, 27, 3724-3735.	1.6	17
69	PrP-grafted antibodies bind certain amyloid β-protein aggregates, but do not prevent toxicity. Brain Research, 2019, 1710, 125-135.	1.1	14
70	Soluble Al ² aggregates can inhibit prion propagation. Open Biology, 2017, 7, 170158.	1.5	11
71	The ELISA-Measured Increase in Cerebrospinal Fluid Tau that Discriminates Alzheimer's Disease from other Neurodegenerative Disorders is not Attributable to Differential Recognition of Tau Assembly Forms. Journal of Alzheimer's Disease, 2013, 33, 923-928.	1.2	10
72	lgG Conformer's Binding to Amyloidogenic Aggregates. PLoS ONE, 2015, 10, e0137344.	1.1	5

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73	DTâ€02â€03: TARGET ENGAGEMENT IN AN AD TRIAL: CRENEZUMAB LOWERS Aβ OLIGOMER LEVELS IN CSF. Alzheimer's and Dementia, 2018, 14, P1669.	0.4	3
74	F5-02-01: Getting a handle on soluble aß in Alzheimer's disease brains. , 2015, 11, P304-P305.		0
75	P1â€106: A HEADâ€TOâ€HEAD COMPARISON OF LEAD CLINICAL ANTIâ€Aβ ANTIBODIES. Alzheimer's and Demer 14, P312.	ntia, 2018, 0.4	Ο
76	P1â€301: CERTAIN PLASMA Nâ€TERMINAL TAU FRAGMENTS ARE ELEVATED IN AD AND ADâ€MCI COMPARED TO CONTROLS. Alzheimer's and Dementia, 2018, 14, P405.	0.4	0
77	Transcriptomic correlates of neurite degeneration due to human brainâ€derived Aβ and protection by clinical antiâ€Aβ antibodies. Alzheimer's and Dementia, 2020, 16, e043057.	0.4	Ο