

David M Holtzman

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456
papers

70,834
citations

135
h-index

260
g-index

529
ext. papers

85,379
ext. citations

11.4
avg, IF

8.05
L-index

#	Paper	IF	Citations
456	The diagnosis of mild cognitive impairment due to Alzheimer's disease: recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2011 , 7, 270-9	1.2	5630
455	NIA-AA Research Framework: Toward a biological definition of Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2018 , 14, 535-562	1.2	3155
454	Clinical and biomarker changes in dominantly inherited Alzheimer's disease. <i>New England Journal of Medicine</i> , 2012 , 367, 795-804	59.2	2272
453	The role of apolipoprotein E in Alzheimer's disease. <i>Neuron</i> , 2009 , 63, 287-303	13.9	1032
452	Inverse relation between in vivo amyloid imaging load and cerebrospinal fluid Abeta42 in humans. <i>Annals of Neurology</i> , 2006 , 59, 512-9	9.4	1009
451	Clearance of Alzheimer's amyloid-ss(1-40) peptide from brain by LDL receptor-related protein-1 at the blood-brain barrier. <i>Journal of Clinical Investigation</i> , 2000 , 106, 1489-99	15.9	996
450	The TREM2-APOE Pathway Drives the Transcriptional Phenotype of Dysfunctional Microglia in Neurodegenerative Diseases. <i>Immunity</i> , 2017 , 47, 566-581.e9	32.3	988
449	Amyloid-beta dynamics are regulated by orexin and the sleep-wake cycle. <i>Science</i> , 2009 , 326, 1005-7	33.3	922
448	Alzheimer's disease: the challenge of the second century. <i>Science Translational Medicine</i> , 2011 , 3, 77sr1	17.5	893
447	Synaptic activity regulates interstitial fluid amyloid-beta levels in vivo. <i>Neuron</i> , 2005 , 48, 913-22	13.9	882
446	TREM2 lipid sensing sustains the microglial response in an Alzheimer's disease model. <i>Cell</i> , 2015 , 160, 1061-71	56.2	847
445	Preclinical Alzheimer's disease: Definition, natural history, and diagnostic criteria. <i>Alzheimer's and Dementia</i> , 2016 , 12, 292-323	1.2	832
444	Apolipoprotein E controls cerebrovascular integrity via cyclophilin A. <i>Nature</i> , 2012 , 485, 512-6	50.4	813
443	Rapid appearance and local toxicity of amyloid-beta plaques in a mouse model of Alzheimer's disease. <i>Nature</i> , 2008 , 451, 720-4	50.4	774
442	Cerebrospinal fluid tau/beta-amyloid(42) ratio as a prediction of cognitive decline in nondemented older adults. <i>Archives of Neurology</i> , 2007 , 64, 343-9		727
441	Alzheimer Disease: An Update on Pathobiology and Treatment Strategies. <i>Cell</i> , 2019 , 179, 312-339	56.2	721
440	Human apoE isoforms differentially regulate brain amyloid-β-peptide clearance. <i>Science Translational Medicine</i> , 2011 , 3, 89ra57	17.5	721

439	ApoE promotes the proteolytic degradation of Abeta. <i>Neuron</i> , 2008 , 58, 681-93	13.9	680
438	APOE predicts amyloid-beta but not tau Alzheimer pathology in cognitively normal aging. <i>Annals of Neurology</i> , 2010 , 67, 122-31	9.4	618
437	Neuronal activity regulates the regional vulnerability to amyloid- β deposition. <i>Nature Neuroscience</i> , 2011 , 14, 750-6	25.5	589
436	Biomarker modeling of Alzheimer's disease. <i>Neuron</i> , 2013 , 80, 1347-58	13.9	586
435	Apolipoprotein E in Alzheimer's disease and other neurological disorders. <i>Lancet Neurology</i> , 2011 , 10, 241-52	24.1	568
434	ApoE4 markedly exacerbates tau-mediated neurodegeneration in a mouse model of tauopathy. <i>Nature</i> , 2017 , 549, 523-527	50.4	520
433	apoE isoform-specific disruption of amyloid beta peptide clearance from mouse brain. <i>Journal of Clinical Investigation</i> , 2008 , 118, 4002-13	15.9	509
432	Brain insulin resistance in type 2 diabetes and Alzheimer disease: concepts and conundrums. <i>Nature Reviews Neurology</i> , 2018 , 14, 168-181	15	505
431	Apolipoprotein E and apolipoprotein E receptors: normal biology and roles in Alzheimer disease. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012 , 2, a006312	5.4	497
430	Transport pathways for clearance of human Alzheimer's amyloid beta-peptide and apolipoproteins E and J in the mouse central nervous system. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 909-18	7.3	495
429	Brain to plasma amyloid-beta efflux: a measure of brain amyloid burden in a mouse model of Alzheimer's disease. <i>Science</i> , 2002 , 295, 2264-7	33.3	495
428	Multimodal techniques for diagnosis and prognosis of Alzheimer's disease. <i>Nature</i> , 2009 , 461, 916-22	50.4	474
427	P-glycoprotein deficiency at the blood-brain barrier increases amyloid-beta deposition in an Alzheimer disease mouse model. <i>Journal of Clinical Investigation</i> , 2005 , 115, 3285-90	15.9	459
426	Sleep and Alzheimer disease pathology--a bidirectional relationship. <i>Nature Reviews Neurology</i> , 2014 , 10, 115-9	15	457
425	Endocytosis is required for synaptic activity-dependent release of amyloid-beta in vivo. <i>Neuron</i> , 2008 , 58, 42-51	13.9	455
424	TREM2 Maintains Microglial Metabolic Fitness in Alzheimer's Disease. <i>Cell</i> , 2017 , 170, 649-663.e13	56.2	441
423	Human amyloid-beta synthesis and clearance rates as measured in cerebrospinal fluid in vivo. <i>Nature Medicine</i> , 2006 , 12, 856-61	50.5	441
422	BDNF protects the neonatal brain from hypoxic-ischemic injury in vivo via the ERK pathway. <i>Journal of Neuroscience</i> , 2000 , 20, 5775-81	6.6	436

4 ²¹	Three dimensions of the amyloid hypothesis: time, space and 'wingmen'. <i>Nature Neuroscience</i> , 2015 , 18, 800-6	25.5	435
4 ²⁰	Tau and A β imaging, CSF measures, and cognition in Alzheimer's disease. <i>Science Translational Medicine</i> , 2016 , 8, 338ra66	17.5	418
4 ¹⁹	Sleep quality and preclinical Alzheimer disease. <i>JAMA Neurology</i> , 2013 , 70, 587-93	17.2	414
4 ¹⁸	Plasmalogen deficiency in early Alzheimer's disease subjects and in animal models: molecular characterization using electrospray ionization mass spectrometry. <i>Journal of Neurochemistry</i> , 2001 , 77, 1168-80	6	400
4 ¹⁷	Trans-cellular propagation of Tau aggregation by fibrillar species. <i>Journal of Biological Chemistry</i> , 2012 , 287, 19440-51	5.4	393
4 ¹⁶	Preclinical Alzheimer's disease and its outcome: a longitudinal cohort study. <i>Lancet Neurology</i> , 2013 , 12, 957-65	24.1	389
4 ¹⁵	Anti-tau antibodies that block tau aggregate seeding in vitro markedly decrease pathology and improve cognition in vivo. <i>Neuron</i> , 2013 , 80, 402-414	13.9	387
4 ¹⁴	Loss of intranetwork and internetwork resting state functional connections with Alzheimer's disease progression. <i>Journal of Neuroscience</i> , 2012 , 32, 8890-9	6.6	385
4 ¹³	In vivo assessment of brain interstitial fluid with microdialysis reveals plaque-associated changes in amyloid-beta metabolism and half-life. <i>Journal of Neuroscience</i> , 2003 , 23, 8844-53	6.6	369
4 ¹²	TREM2-mediated early microglial response limits diffusion and toxicity of amyloid plaques. <i>Journal of Experimental Medicine</i> , 2016 , 213, 667-75	16.6	367
4 ¹¹	ApoE and clusterin cooperatively suppress Abeta levels and deposition: evidence that ApoE regulates extracellular Abeta metabolism in vivo. <i>Neuron</i> , 2004 , 41, 193-202	13.9	355
4 ¹⁰	p140trk mRNA marks NGF-responsive forebrain neurons: evidence that trk gene expression is induced by NGF. <i>Neuron</i> , 1992 , 9, 465-78	13.9	351
4 ⁰⁹	Pittsburgh compound B imaging and prediction of progression from cognitive normality to symptomatic Alzheimer disease. <i>Archives of Neurology</i> , 2009 , 66, 1469-75		350
4 ⁰⁸	Disruption of the sleep-wake cycle and diurnal fluctuation of β amyloid in mice with Alzheimer's disease pathology. <i>Science Translational Medicine</i> , 2012 , 4, 150ra122	17.5	339
4 ⁰⁷	ApoE influences amyloid- β clearance despite minimal apoE/A β association in physiological conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E1807-16	11.5	336
4 ⁰⁶	Mechanisms linking circadian clocks, sleep, and neurodegeneration. <i>Science</i> , 2016 , 354, 1004-1008	33.3	325
4 ⁰⁵	Neuronal activity regulates extracellular tau in vivo. <i>Journal of Experimental Medicine</i> , 2014 , 211, 387-93	16.6	319
4 ⁰⁴	Antibiotic-induced perturbations in gut microbial diversity influences neuro-inflammation and amyloidosis in a murine model of Alzheimer's disease. <i>Scientific Reports</i> , 2016 , 6, 30028	4.9	314

403	Proteopathic tau seeding predicts tauopathy in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4376-85	11.5	307
402	ABCA1 is required for normal central nervous system ApoE levels and for lipidation of astrocyte-secreted apoE. <i>Journal of Biological Chemistry</i> , 2004 , 279, 40987-93	5.4	304
401	YKL-40: a novel prognostic fluid biomarker for preclinical Alzheimer's disease. <i>Biological Psychiatry</i> , 2010 , 68, 903-12	7.9	298
400	Microglia mediate the clearance of soluble Abeta through fluid phase macropinocytosis. <i>Journal of Neuroscience</i> , 2009 , 29, 4252-62	6.6	298
399	The Alzheimer's Association external quality control program for cerebrospinal fluid biomarkers. <i>Alzheimer's and Dementia</i> , 2011 , 7, 386-395.e6	1.2	291
398	CSF biomarker variability in the Alzheimer's Association quality control program. <i>Alzheimer's and Dementia</i> , 2013 , 9, 251-61	1.2	289
397	Minocycline markedly protects the neonatal brain against hypoxic-ischemic injury. <i>Annals of Neurology</i> , 2002 , 52, 54-61	9.4	280
396	Cerebrospinal fluid tau and ptau(181) increase with cortical amyloid deposition in cognitively normal individuals: implications for future clinical trials of Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2009 , 1, 371-80	12	278
395	Exacerbation of cerebral amyloid angiopathy-associated microhemorrhage in amyloid precursor protein transgenic mice by immunotherapy is dependent on antibody recognition of deposited forms of amyloid beta. <i>Journal of Neuroscience</i> , 2005 , 25, 629-36	6.6	278
394	Clusterin promotes amyloid plaque formation and is critical for neuritic toxicity in a mouse model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10843-8	11.5	273
393	Decreased cerebrospinal fluid Abeta(42) correlates with brain atrophy in cognitively normal elderly. <i>Annals of Neurology</i> , 2009 , 65, 176-83	9.4	272
392	Sleep, circadian rhythms, and the pathogenesis of Alzheimer disease. <i>Experimental and Molecular Medicine</i> , 2015 , 47, e148	12.8	271
391	Amyloid τ concentrations and stable isotope labeling kinetics of human plasma specific to central nervous system amyloidosis. <i>Alzheimer's and Dementia</i> , 2017 , 13, 841-849	1.2	266
390	A gamma-secretase inhibitor decreases amyloid-beta production in the central nervous system. <i>Annals of Neurology</i> , 2009 , 66, 48-54	9.4	262
389	Apolipoprotein E facilitates neuritic and cerebrovascular plaque formation in an Alzheimer's disease model. <i>Annals of Neurology</i> , 2000 , 47, 739-747	9.4	262
388	Human and mouse single-nucleus transcriptomics reveal TREM2-dependent and TREM2-independent cellular responses in Alzheimer's disease. <i>Nature Medicine</i> , 2020 , 26, 131-142	50.5	259
387	Overexpression of ABCA1 reduces amyloid deposition in the PDAPP mouse model of Alzheimer disease. <i>Journal of Clinical Investigation</i> , 2008 , 118, 671-82	15.9	258
386	Slow wave sleep disruption increases cerebrospinal fluid amyloid- β levels. <i>Brain</i> , 2017 , 140, 2104-2111	11.2	256

385	In vivo microdialysis reveals age-dependent decrease of brain interstitial fluid tau levels in P301S human tau transgenic mice. <i>Journal of Neuroscience</i> , 2011 , 31, 13110-7	6.6	256
384	GWAS of cerebrospinal fluid tau levels identifies risk variants for Alzheimer's disease. <i>Neuron</i> , 2013 , 78, 256-68	13.9	255
383	Pomegranate juice decreases amyloid load and improves behavior in a mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2006 , 24, 506-15	7.5	254
382	Role of tissue plasminogen activator receptor LRP in hippocampal long-term potentiation. <i>Journal of Neuroscience</i> , 2000 , 20, 542-9	6.6	254
381	Amyloid-beta dynamics correlate with neurological status in the injured human brain. <i>Science</i> , 2008 , 321, 1221-4	33.3	253
380	Expression of human apolipoprotein E reduces amyloid-beta deposition in a mouse model of Alzheimer's disease. <i>Journal of Clinical Investigation</i> , 1999 , 103, R15-R21	15.9	253
379	The sleep-wake cycle regulates brain interstitial fluid tau in mice and CSF tau in humans. <i>Science</i> , 2019 , 363, 880-884	33.3	248
378	White matter hyperintensities are a core feature of Alzheimer's disease: Evidence from the dominantly inherited Alzheimer network. <i>Annals of Neurology</i> , 2016 , 79, 929-39	9.4	247
377	High-precision plasma β amyloid 42/40 predicts current and future brain amyloidosis. <i>Neurology</i> , 2019 , 93, e1647-e1659	6.5	245
376	Longitudinal change in CSF biomarkers in autosomal-dominant Alzheimer's disease. <i>Science Translational Medicine</i> , 2014 , 6, 226ra30	17.5	244
375	Deletion of Abca1 increases Abeta deposition in the PDAPP transgenic mouse model of Alzheimer disease. <i>Journal of Biological Chemistry</i> , 2005 , 280, 43236-42	5.4	243
374	BDNF blocks caspase-3 activation in neonatal hypoxia-ischemia. <i>Neurobiology of Disease</i> , 2000 , 7, 38-53	7.5	237
373	Functional connectivity and graph theory in preclinical Alzheimer's disease. <i>Neurobiology of Aging</i> , 2014 , 35, 757-68	5.6	230
372	Human apolipoprotein E4 alters the amyloid-beta 40:42 ratio and promotes the formation of cerebral amyloid angiopathy in an amyloid precursor protein transgenic model. <i>Journal of Neuroscience</i> , 2005 , 25, 2803-10	6.6	227
371	Spatial patterns of neuroimaging biomarker change in individuals from families with autosomal dominant Alzheimer's disease: a longitudinal study. <i>Lancet Neurology</i> , 2018 , 17, 241-250	24.1	224
370	Bcl-xL is an antiapoptotic regulator for postnatal CNS neurons. <i>Journal of Neuroscience</i> , 1998 , 18, 1009-16	6.6	224
369	Interplay between innate immunity and Alzheimer disease: APOE and TREM2 in the spotlight. <i>Nature Reviews Immunology</i> , 2018 , 18, 759-772	36.5	222
368	Human and murine ApoE markedly alters A beta metabolism before and after plaque formation in a mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2002 , 9, 305-18	7.5	217

367	Plaque-associated disruption of CSF and plasma amyloid-beta (Abeta) equilibrium in a mouse model of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2002 , 81, 229-36	6	208
366	Exercise and Alzheimer's disease biomarkers in cognitively normal older adults. <i>Annals of Neurology</i> , 2010 , 68, 311-8	9.4	205
365	Loss of TREM2 function increases amyloid seeding but reduces plaque-associated ApoE. <i>Nature Neuroscience</i> , 2019 , 22, 191-204	25.5	205
364	Alpha2-macroglobulin complexes with and mediates the endocytosis of beta-amyloid peptide via cell surface low-density lipoprotein receptor-related protein. <i>Journal of Neurochemistry</i> , 1997 , 69, 1904-11	6	204
363	Altered microglial response to A β plaques in APPPS1-21 mice heterozygous for TREM2. <i>Molecular Neurodegeneration</i> , 2014 , 9, 20	19	203
362	Active and passive immunotherapy for neurodegenerative disorders. <i>Annual Review of Neuroscience</i> , 2008 , 31, 175-93	17	202
361	Cerebrospinal fluid soluble TREM2 is higher in Alzheimer disease and associated with mutation status. <i>Acta Neuropathologica</i> , 2016 , 131, 925-33	14.3	201
360	Fluctuations of CSF amyloid-beta levels: implications for a diagnostic and therapeutic biomarker. <i>Neurology</i> , 2007 , 68, 666-9	6.5	201
359	Nitric oxide mediates cerebral ischemic tolerance in a neonatal rat model of hypoxic preconditioning. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999 , 19, 331-40	7.3	199
358	Antisense reduction of tau in adult mice protects against seizures. <i>Journal of Neuroscience</i> , 2013 , 33, 12887-97	6.6	198
357	TREM2 deficiency attenuates neuroinflammation and protects against neurodegeneration in a mouse model of tauopathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11524-11529	11.5	197
356	Glial fibrillary acidic protein-apolipoprotein E (apoE) transgenic mice: astrocyte-specific expression and differing biological effects of astrocyte-secreted apoE3 and apoE4 lipoproteins. <i>Journal of Neuroscience</i> , 1998 , 18, 3261-72	6.6	196
355	Apolipoprotein E4 effects in Alzheimer's disease are mediated by synaptotoxic oligomeric amyloid- β . <i>Brain</i> , 2012 , 135, 2155-68	11.2	195
354	Longitudinal Cerebrospinal Fluid Biomarker Changes in Preclinical Alzheimer Disease During Middle Age. <i>JAMA Neurology</i> , 2015 , 72, 1029-42	17.2	190
353	Glial contributions to neurodegeneration in tauopathies. <i>Molecular Neurodegeneration</i> , 2017 , 12, 50	19	188
352	Overexpression of low-density lipoprotein receptor in the brain markedly inhibits amyloid deposition and increases extracellular A beta clearance. <i>Neuron</i> , 2009 , 64, 632-44	13.9	185
351	Characterizing the appearance and growth of amyloid plaques in APP/PS1 mice. <i>Journal of Neuroscience</i> , 2009 , 29, 10706-14	6.6	182
350	Clusterin contributes to caspase-3-independent brain injury following neonatal hypoxia-ischemia. <i>Nature Medicine</i> , 2001 , 7, 338-43	50.5	182

349	Apolipoprotein E, especially apolipoprotein E4, increases the oligomerization of amyloid β peptide. <i>Journal of Neuroscience</i> , 2012 , 32, 15181-92	6.6	176
348	Plasma multianalyte profiling in mild cognitive impairment and Alzheimer disease. <i>Neurology</i> , 2012 , 79, 897-905	6.5	175
347	Amyloid imaging and CSF biomarkers in predicting cognitive impairment up to 7.5 years later. <i>Neurology</i> , 2013 , 80, 1784-91	6.5	175
346	Apolipoprotein E-containing high density lipoprotein promotes neurite outgrowth and is a ligand for the low density lipoprotein receptor-related protein. <i>Journal of Biological Chemistry</i> , 1996 , 271, 30121-5	5.4	174
345	Elucidating the Role of TREM2 in Alzheimer's Disease. <i>Neuron</i> , 2017 , 94, 237-248	13.9	171
344	Neonatal mice lacking neuronal nitric oxide synthase are less vulnerable to hypoxic-ischemic injury. <i>Neurobiology of Disease</i> , 1996 , 3, 64-71	7.5	171
343	Multiplexed immunoassay panel identifies novel CSF biomarkers for Alzheimer's disease diagnosis and prognosis. <i>PLoS ONE</i> , 2011 , 6, e18850	3.7	168
342	Circadian Rest-Activity Pattern Changes in Aging and Preclinical Alzheimer Disease. <i>JAMA Neurology</i> , 2018 , 75, 582-590	17.2	166
341	Absence of Pittsburgh compound B detection of cerebral amyloid beta in a patient with clinical, cognitive, and cerebrospinal fluid markers of Alzheimer disease: a case report. <i>Archives of Neurology</i> , 2009 , 66, 1557-62		165
340	Neuronal clearance of amyloid- β by endocytic receptor LRP1. <i>Journal of Neuroscience</i> , 2013 , 33, 19276-83	6.6	164
339	Marked age-dependent neuroprotection by brain-derived neurotrophic factor against neonatal hypoxic-ischemic brain injury. <i>Annals of Neurology</i> , 1997 , 41, 521-9	9.4	164
338	Lipoproteins in the central nervous system. <i>Annals of the New York Academy of Sciences</i> , 2000 , 903, 167-75	5.5	163
337	Acute stress increases interstitial fluid amyloid-beta via corticotropin-releasing factor and neuronal activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10673-8	11.5	162
336	New insights into the role of TREM2 in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2018 , 13, 66	19	161
335	Role of the Menkes copper-transporting ATPase in NMDA receptor-mediated neuronal toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 14919-24	11.5	154
334	Neurogranin as a Cerebrospinal Fluid Biomarker for Synaptic Loss in Symptomatic Alzheimer Disease. <i>JAMA Neurology</i> , 2015 , 72, 1275-80	17.2	152
333	Unique lipoproteins secreted by primary astrocytes from wild type, apoE (-/-), and human apoE transgenic mice. <i>Journal of Biological Chemistry</i> , 1999 , 274, 30001-7	5.4	152
332	BDNF protects against spatial memory deficits following neonatal hypoxia-ischemia. <i>Experimental Neurology</i> , 2000 , 166, 99-114	5.7	151

331	Cerebrospinal fluid APOE levels: an endophenotype for genetic studies for Alzheimer's disease. <i>Human Molecular Genetics</i> , 2012 , 21, 4558-71	5.6	150
330	Cerebrospinal fluid biomarkers and rate of cognitive decline in very mild dementia of the Alzheimer type. <i>Archives of Neurology</i> , 2009 , 66, 638-45		148
329	Increased in vivo amyloid- β production, exchange, and loss in presenilin mutation carriers. <i>Science Translational Medicine</i> , 2013 , 5, 189ra77	17.5	144
328	Developing an international network for Alzheimer research: The Dominantly Inherited Alzheimer Network. <i>Clinical Investigation</i> , 2012 , 2, 975-984		144
327	Selective, reversible caspase-3 inhibitor is neuroprotective and reveals distinct pathways of cell death after neonatal hypoxic-ischemic brain injury. <i>Journal of Biological Chemistry</i> , 2002 , 277, 30128-36	5.4	141
326	Anti-A β antibody treatment promotes the rapid recovery of amyloid-associated neuritic dystrophy in PDAPP transgenic mice. <i>Journal of Clinical Investigation</i> , 2005 , 115, 428-33	15.9	140
325	Morris water maze search strategy analysis in PDAPP mice before and after experimental traumatic brain injury. <i>Experimental Neurology</i> , 2006 , 197, 330-40	5.7	139
324	Potential role of orexin and sleep modulation in the pathogenesis of Alzheimer's disease. <i>Journal of Experimental Medicine</i> , 2014 , 211, 2487-96	16.6	138
323	Haploinsufficiency of human APOE reduces amyloid deposition in a mouse model of amyloid- β amyloidosis. <i>Journal of Neuroscience</i> , 2011 , 31, 18007-12	6.6	138
322	Comparison of analytical platforms for cerebrospinal fluid measures of A β amyloid 1-42, total tau, and p-tau181 for identifying Alzheimer disease amyloid plaque pathology. <i>Archives of Neurology</i> , 2011 , 68, 1137-44		138
321	Biomarkers of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2009 , 35, 128-40	7.5	134
320	Evidence for peripheral clearance of cerebral A β protein following chronic, active A β immunization in PSAPP mice. <i>Neurobiology of Disease</i> , 2003 , 14, 10-8	7.5	134
319	Purification and characterization of astrocyte-secreted apolipoprotein E and J-containing lipoproteins from wild-type and human apoE transgenic mice. <i>Neurochemistry International</i> , 2001 , 39, 415-25	4.4	134
318	Chronic optogenetic activation augments A β pathology in a mouse model of Alzheimer disease. <i>Cell Reports</i> , 2015 , 11, 859-865	10.6	132
317	Novel allele-dependent role for APOE in controlling the rate of synapse pruning by astrocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10186-91	11.5	132
316	Apolipoprotein E markedly facilitates age-dependent cerebral amyloid angiopathy and spontaneous hemorrhage in amyloid precursor protein transgenic mice. <i>Journal of Neuroscience</i> , 2003 , 23, 7889-96	6.6	130
315	Nerve growth factor protects the neonatal brain against hypoxic-ischemic injury. <i>Annals of Neurology</i> , 1996 , 39, 114-22	9.4	130
314	Bidirectional relationship between functional connectivity and amyloid- β deposition in mouse brain. <i>Journal of Neuroscience</i> , 2012 , 32, 4334-40	6.6	129

313	Longitudinal cognitive and biomarker changes in dominantly inherited Alzheimer disease. <i>Neurology</i> , 2018 , 91, e1295-e1306	6.5	129
312	Microglia drive APOE-dependent neurodegeneration in a tauopathy mouse model. <i>Journal of Experimental Medicine</i> , 2019 , 216, 2546-2561	16.6	126
311	The relationship between cerebrospinal fluid markers of Alzheimer pathology and positron emission tomography tau imaging. <i>Brain</i> , 2016 , 139, 2249-60	11.2	125
310	The choroid plexus and cerebrospinal fluid: emerging roles in development, disease, and therapy. <i>Journal of Neuroscience</i> , 2013 , 33, 17553-9	6.6	125
309	Low-density lipoprotein receptor represents an apolipoprotein E-independent pathway of A β uptake and degradation by astrocytes. <i>Journal of Biological Chemistry</i> , 2012 , 287, 13959-71	5.4	124
308	Identification and validation of novel cerebrospinal fluid biomarkers for staging early Alzheimer's disease. <i>PLoS ONE</i> , 2011 , 6, e16032	3.7	124
307	Reduced non-rapid eye movement sleep is associated with tau pathology in early Alzheimer's disease. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	123
306	Hyperglycemia modulates extracellular amyloid- β concentrations and neuronal activity in vivo. <i>Journal of Clinical Investigation</i> , 2015 , 125, 2463-7	15.9	122
305	Tau elevations in the brain extracellular space correlate with reduced amyloid- β levels and predict adverse clinical outcomes after severe traumatic brain injury. <i>Brain</i> , 2012 , 135, 1268-80	11.2	122
304	Rapid microglial response around amyloid pathology after systemic anti-A β antibody administration in PDAPP mice. <i>Journal of Neuroscience</i> , 2008 , 28, 14156-64	6.6	122
303	A synthetic peptide blocking the apolipoprotein E/beta-amyloid binding mitigates beta-amyloid toxicity and fibril formation in vitro and reduces beta-amyloid plaques in transgenic mice. <i>American Journal of Pathology</i> , 2004 , 165, 937-48	5.8	122
302	Cerebrospinal fluid biomarkers measured by Elecsys assays compared to amyloid imaging. <i>Alzheimer's and Dementia</i> , 2018 , 14, 1460-1469	1.2	120
301	Low-density lipoprotein receptor overexpression enhances the rate of brain-to-blood A β clearance in a mouse model of β amyloidosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15502-7	11.5	120
300	A role for TrkA during maturation of striatal and basal forebrain cholinergic neurons in vivo. <i>Journal of Neuroscience</i> , 1997 , 17, 7644-54	6.6	120
299	Increased soluble amyloid-beta peptide and memory deficits in amyloid model mice overexpressing the low-density lipoprotein receptor-related protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1075-80	11.5	120
298	Anti-tau antibody reduces insoluble tau and decreases brain atrophy. <i>Annals of Clinical and Translational Neurology</i> , 2015 , 2, 278-88	5.3	119
297	In situ immunodetection of neuronal caspase-3 activation in Alzheimer disease. <i>Journal of Neuropathology and Experimental Neurology</i> , 1999 , 58, 1020-6	3.1	119
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