

Erik D Roberson

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

12,658
citations

47
h-index

112
g-index

138
ext. papers

15,489
ext. citations

8.9
avg, IF

5.78
L-index

#	Paper	IF	Citations
124	Reducing endogenous tau ameliorates amyloid beta-induced deficits in an Alzheimer's disease mouse model. <i>Science</i> , 2007 , 316, 750-4	33.3	1431
123	Common variants at MS4A4/MS4A6E, CD2AP, CD33 and EPHA1 are associated with late-onset Alzheimer's disease. <i>Nature Genetics</i> , 2011 , 43, 436-41	36.3	1367
122	Aberrant excitatory neuronal activity and compensatory remodeling of inhibitory hippocampal circuits in mouse models of Alzheimer's disease. <i>Neuron</i> , 2007 , 55, 697-711	13.9	1038
121	Genetic meta-analysis of diagnosed Alzheimer's disease identifies new risk loci and implicates A β tau, immunity and lipid processing. <i>Nature Genetics</i> , 2019 , 51, 414-430	36.3	917
120	Rare coding variants in PLCG2, ABI3, and TREM2 implicate microglial-mediated innate immunity in Alzheimer's disease. <i>Nature Genetics</i> , 2017 , 49, 1373-1384	36.3	508
119	Amyloid- β /Fyn-induced synaptic, network, and cognitive impairments depend on tau levels in multiple mouse models of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2011 , 31, 700-11	6.6	479
118	The mitogen-activated protein kinase cascade couples PKA and PKC to cAMP response element binding protein phosphorylation in area CA1 of hippocampus. <i>Journal of Neuroscience</i> , 1999 , 19, 4337-48	6.6	473
117	100 years and counting: prospects for defeating Alzheimer's disease. <i>Science</i> , 2006 , 314, 781-4	33.3	444
116	Meta-analysis confirms CR1, CLU, and PICALM as alzheimer disease risk loci and reveals interactions with APOE genotypes. <i>Archives of Neurology</i> , 2010 , 67, 1473-84		330
115	Anti-amyloidogenic and neuroprotective functions of cathepsin B: implications for Alzheimer's disease. <i>Neuron</i> , 2006 , 51, 703-14	13.9	300
114	Frontotemporal lobar degeneration: demographic characteristics of 353 patients. <i>Archives of Neurology</i> , 2005 , 62, 925-30		272
113	Common genetic variants in the CLDN2 and PRSS1-PRSS2 loci alter risk for alcohol-related and sporadic pancreatitis. <i>Nature Genetics</i> , 2012 , 44, 1349-54	36.3	223
112	Frontotemporal dementia progresses to death faster than Alzheimer disease. <i>Neurology</i> , 2005 , 65, 719-25	25.5	219
111	Incidence and impact of subclinical epileptiform activity in Alzheimer's disease. <i>Annals of Neurology</i> , 2016 , 80, 858-870	9.4	218
110	Davunetide in patients with progressive supranuclear palsy: a randomised, double-blind, placebo-controlled phase 2/3 trial. <i>Lancet Neurology</i> , 2014 , 13, 676-85	24.1	197
109	Mouse models of Alzheimer's disease. <i>Brain Research Bulletin</i> , 2012 , 88, 3-12	3.9	191
108	Mice lacking ataxin-1 display learning deficits and decreased hippocampal paired-pulse facilitation. <i>Journal of Neuroscience</i> , 1998 , 18, 5508-16	6.6	181

107	ALS-associated mutation FUS-R521C causes DNA damage and RNA splicing defects. <i>Journal of Clinical Investigation</i> , 2014 , 124, 981-99	15.9	179
106	A novel Alzheimer disease locus located near the gene encoding tau protein. <i>Molecular Psychiatry</i> , 2016 , 21, 108-17	15.1	175
105	Evidence for a role of the rare p.A152T variant in MAPT in increasing the risk for FTD-spectrum and Alzheimer's diseases. <i>Human Molecular Genetics</i> , 2012 , 21, 3500-12	5.6	174
104	A role for superoxide in protein kinase C activation and induction of long-term potentiation. <i>Journal of Biological Chemistry</i> , 1998 , 273, 4516-22	5.4	148
103	Transient activation of cyclic AMP-dependent protein kinase during hippocampal long-term potentiation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 30436-41	5.4	132
102	Effects of multiple genetic loci on age at onset in late-onset Alzheimer disease: a genome-wide association study. <i>JAMA Neurology</i> , 2014 , 71, 1394-404	17.2	129
101	Novel late-onset Alzheimer disease loci variants associate with brain gene expression. <i>Neurology</i> , 2012 , 79, 221-8	6.5	124
100	Assessment of the genetic variance of late-onset Alzheimer's disease. <i>Neurobiology of Aging</i> , 2016 , 41, 200.e13-200.e20	5.6	119
99	Amyloid- β signals through tau to drive ectopic neuronal cell cycle re-entry in Alzheimer's disease. <i>Journal of Cell Science</i> , 2013 , 126, 1278-86	5.3	111
98	Dissociation of frontotemporal dementia-related deficits and neuroinflammation in progranulin haploinsufficient mice. <i>Journal of Neuroscience</i> , 2013 , 33, 5352-61	6.6	107
97	Transethnic genome-wide scan identifies novel Alzheimer's disease loci. <i>Alzheimers and Dementia</i> , 2017 , 13, 727-738	1.2	106
96	F-flortaucipir tau positron emission tomography distinguishes established progressive supranuclear palsy from controls and Parkinson disease: A multicenter study. <i>Annals of Neurology</i> , 2017 , 82, 622-634	9.4	106
95	Noradrenergic dysfunction in Alzheimer's disease. <i>Frontiers in Neuroscience</i> , 2015 , 9, 220	5.1	102
94	Loss of Hsp70 exacerbates pathogenesis but not levels of fibrillar aggregates in a mouse model of Huntington's disease. <i>Journal of Neuroscience</i> , 2009 , 29, 9104-14	6.6	95
93	A biochemist's view of long-term potentiation. <i>Learning and Memory</i> , 1996 , 3, 1-24	2.8	93
92	Tau-dependent Kv4.2 depletion and dendritic hyperexcitability in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2015 , 35, 6221-30	6.6	92
91	Abnormal social behaviors in mice lacking Fgf17. <i>Genes, Brain and Behavior</i> , 2008 , 7, 344-54	3.6	90
90	Vascular amyloidosis impairs the gliovascular unit in a mouse model of Alzheimer's disease. <i>Brain</i> , 2015 , 138, 3716-33	11.2	88

89	Progranulin Gene Therapy Improves Lysosomal Dysfunction and Microglial Pathology Associated with Frontotemporal Dementia and Neuronal Ceroid Lipofuscinosis. <i>Journal of Neuroscience</i> , 2018 , 38, 2341-2358	6.6	79
88	Early retinal neurodegeneration and impaired Ran-mediated nuclear import of TDP-43 in progranulin-deficient FTLD. <i>Journal of Experimental Medicine</i> , 2014 , 211, 1937-45	16.6	67
87	The dendritic hypothesis for Alzheimer's disease pathophysiology. <i>Brain Research Bulletin</i> , 2014 , 103, 18-28	3.9	66
86	Enkephalin elevations contribute to neuronal and behavioral impairments in a transgenic mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2008 , 28, 5007-17	6.6	62
85	Mouse models of frontotemporal dementia. <i>Annals of Neurology</i> , 2012 , 72, 837-49	9.4	61
84	Seizure resistance without parkinsonism in aged mice after tau reduction. <i>Neurobiology of Aging</i> , 2014 , 35, 2617-2624	5.6	53
83	A trial of gantenerumab or solanezumab in dominantly inherited Alzheimer's disease. <i>Nature Medicine</i> , 2021 , 27, 1187-1196	50.5	51
82	MAPK regulation of gene expression in the central nervous system. <i>Acta Neurobiologiae Experimentalis</i> , 2000 , 60, 377-94	1	50
81	Pathogenic Tau Impairs Axon Initial Segment Plasticity and Excitability Homeostasis. <i>Neuron</i> , 2019 , 104, 458-470.e5	13.9	49
80	Tau-mediated NMDA receptor impairment underlies dysfunction of a selectively vulnerable network in a mouse model of frontotemporal dementia. <i>Journal of Neuroscience</i> , 2014 , 34, 16482-95	6.6	49
79	Protected-site phosphorylation of protein kinase C in hippocampal long-term potentiation. <i>Journal of Neurochemistry</i> , 1998 , 71, 1075-85	6	48
78	Quantifying biomarkers of cognitive dysfunction and neuronal network hyperexcitability in mouse models of Alzheimer's disease: depletion of calcium-dependent proteins and inhibitory hippocampal remodeling. <i>Methods in Molecular Biology</i> , 2011 , 670, 245-62	1.4	47
77	Comparison of Pittsburgh compound B and florbetapir in cross-sectional and longitudinal studies. <i>Alzheimers and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019 , 11, 180-190	5.2	46
76	Frontotemporal degeneration, the next therapeutic frontier: molecules and animal models for frontotemporal degeneration drug development. <i>Alzheimers and Dementia</i> , 2013 , 9, 176-88	1.2	45
75	Amyloid redirects norepinephrine signaling to activate the pathogenic GSK3 β /tau cascade. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	43
74	The advantages of frontotemporal degeneration drug development (part 2 of frontotemporal degeneration: the next therapeutic frontier). <i>Alzheimers and Dementia</i> , 2013 , 9, 189-98	1.2	42
73	Reactions to Multiple Ascending Doses of the Microtubule Stabilizer TPI-287 in Patients With Alzheimer Disease, Progressive Supranuclear Palsy, and Corticobasal Syndrome: A Randomized Clinical Trial. <i>JAMA Neurology</i> , 2020 , 77, 215-224	17.2	42
72	Human tau pathology transmits glial tau aggregates in the absence of neuronal tau. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	39

71	Restoring neuronal progranulin reverses deficits in a mouse model of frontotemporal dementia. <i>Brain</i> , 2017 , 140, 1447-1465	11.2	37
70	Shared Functions of Perirhinal and Parahippocampal Cortices: Implications for Cognitive Aging. <i>Trends in Neurosciences</i> , 2018 , 41, 349-359	13.3	35
69	Novel Alzheimer Disease Risk Loci and Pathways in African American Individuals Using the African Genome Resources Panel: A Meta-analysis. <i>JAMA Neurology</i> , 2021 , 78, 102-113	17.2	32
68	Rarity of the Alzheimer disease-protective APP A673T variant in the United States. <i>JAMA Neurology</i> , 2015 , 72, 209-16	17.2	31
67	A Biochemical Blueprint for Long-Term Memory. <i>Learning and Memory</i> , 1999 , 6, 381-388	2.8	30
66	Holocranohistochemistry enables the visualization of Eynuclein expression in the murine olfactory system and discovery of its systemic anti-microbial effects. <i>Journal of Neural Transmission</i> , 2017 , 124, 721-738	4.3	28
65	Utility of the global CDR plus NACC FTL D rating and development of scoring rules: Data from the ARTFL/LEFFTDS Consortium. <i>Alzheimers and Dementia</i> , 2020 , 16, 106-117	1.2	27
64	The Alzheimer's disease risk factor CD2AP maintains blood-brain barrier integrity. <i>Human Molecular Genetics</i> , 2015 , 24, 6667-74	5.6	26
63	Genetic screening of a large series of North American sporadic and familial frontotemporal dementia cases. <i>Alzheimers and Dementia</i> , 2020 , 16, 118-130	1.2	25
62	Polyneuropathy following gastric bypass surgery. <i>American Journal of Medicine</i> , 2003 , 115, 679-80	2.4	25
61	Usp14 deficiency increases tau phosphorylation without altering tau degradation or causing tau-dependent deficits. <i>PLoS ONE</i> , 2012 , 7, e47884	3.7	24
60	Impaired Eglucocerebrosidase activity and processing in frontotemporal dementia due to progranulin mutations. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 218	7.3	24
59	Non-coding and Loss-of-Function Coding Variants in TET2 are Associated with Multiple Neurodegenerative Diseases. <i>American Journal of Human Genetics</i> , 2020 , 106, 632-645	11	23
58	Progranulin haploinsufficiency causes biphasic social dominance abnormalities in the tube test. <i>Genes, Brain and Behavior</i> , 2016 , 15, 588-603	3.6	22
57	Functional insights from biophysical study of TREM2 interactions with apoE and A β . <i>Alzheimers and Dementia</i> , 2020 , 17, 475	1.2	19
56	Step-by-step in situ hybridization method for localizing gene expression changes in the brain. <i>Methods in Molecular Biology</i> , 2011 , 670, 207-30	1.4	18
55	Assessment of executive function declines in presymptomatic and mildly symptomatic familial frontotemporal dementia: NIH-EXAMINER as a potential clinical trial endpoint. <i>Alzheimers and Dementia</i> , 2020 , 16, 11-21	1.2	18
54	Individualized atrophy scores predict dementia onset in familial frontotemporal lobar degeneration. <i>Alzheimers and Dementia</i> , 2020 , 16, 37-48	1.2	18

53	Partial Tmem106b reduction does not correct abnormalities due to progranulin haploinsufficiency. <i>Molecular Neurodegeneration</i> , 2018 , 13, 32	19	17
52	Clinical and volumetric changes with increasing functional impairment in familial frontotemporal lobar degeneration. <i>Alzheimers and Dementia</i> , 2020 , 16, 49-59	1.2	17
51	Frontotemporal dementia. <i>Current Neurology and Neuroscience Reports</i> , 2006 , 6, 481-9	6.6	16
50	Genome sequencing for early-onset or atypical dementia: high diagnostic yield and frequent observation of multiple contributory alleles. <i>Journal of Physical Education and Sports Management</i> , 2019 , 5,	2.8	15
49	Geriatric epilepsy: research and clinical directions for the future. <i>Epilepsy and Behavior</i> , 2011 , 22, 103-113	3.2	14
48	Revised Self-Monitoring Scale: A potential endpoint for frontotemporal dementia clinical trials. <i>Neurology</i> , 2020 , 94, e2384-e2395	6.5	14
47	AlphaScreen HTS and live-cell bioluminescence resonance energy transfer (BRET) assays for identification of Tau-Fyn SH3 interaction inhibitors for Alzheimer disease. <i>Journal of Biomolecular Screening</i> , 2014 , 19, 1338-49		13
46	Clinical, imaging, pathological, and biochemical characterization of a novel presenilin 1 mutation (N135Y) causing Alzheimer's disease. <i>Neurobiology of Aging</i> , 2017 , 49, 216.e7-216.e13	5.6	13
45	Memory-forming chemical reactions. <i>Reviews in the Neurosciences</i> , 2001 , 12, 41-50	4.7	13
44	Plasma Neurofilament Light for Prediction of Disease Progression in Familial Frontotemporal Lobar Degeneration. <i>Neurology</i> , 2021 , 96, e2296-e2312	6.5	12
43	Neurodegenerative Disease-Associated Variants in TREM2 Destabilize the Apical Ligand-Binding Region of the Immunoglobulin Domain. <i>Frontiers in Neurology</i> , 2019 , 10, 1252	4.1	12
42	Challenges and opportunities for characterizing cognitive aging across species. <i>Frontiers in Aging Neuroscience</i> , 2012 , 4, 6	5.3	10
41	Alzheimer's disease risk gene induces Tau-dependent network hyperexcitability. <i>ELife</i> , 2020 , 9,	8.9	10
40	A peptide inhibitor of Tau-SH3 interactions ameliorates amyloid- β toxicity. <i>Neurobiology of Disease</i> , 2020 , 134, 104668	7.5	10
39	Contemporary approaches to Alzheimer's disease and frontotemporal dementia. <i>Methods in Molecular Biology</i> , 2011 , 670, 1-9	1.4	7
38	MicroRNA-124 modulates social behavior in frontotemporal dementia. <i>Nature Medicine</i> , 2014 , 20, 1381-3	30.5	6
37	Reduction of microglial progranulin does not exacerbate pathology or behavioral deficits in neuronal progranulin-insufficient mice. <i>Neurobiology of Disease</i> , 2019 , 124, 152-162	7.5	6
36	Genetic influences on cognition in progressive supranuclear palsy. <i>Movement Disorders</i> , 2017 , 32, 1764-1771		5

35	Effects of Exercise on Progranulin Levels and Gliosis in Progranulin-Insufficient Mice. <i>ENeuro</i> , 2015 , 2,	3.9	5
34	Aberrant regulation of a poison exon caused by a non-coding variant in a mouse model of Scn1a-associated epileptic encephalopathy. <i>PLoS Genetics</i> , 2021 , 17, e1009195	6	5
33	Elevated levels of extracellular vesicles in progranulin-deficient mice and FTD-GRN Patients. <i>Annals of Clinical and Translational Neurology</i> , 2020 , 7, 2433-2449	5.3	4
32	Severity dependent distribution of impairments in PSP and CBS: Interactive visualizations. <i>Parkinsonism and Related Disorders</i> , 2019 , 60, 138-145	3.6	4
31	Brain volumetric deficits in MAPT mutation carriers: a multisite study. <i>Annals of Clinical and Translational Neurology</i> , 2021 , 8, 95-110	5.3	4
30	Alzheimer's Disease and Frontotemporal Dementia. <i>Methods in Molecular Biology</i> , 2011 ,	1.4	3
29	Tau-Atrophy Variability Reveals Phenotypic Heterogeneity in Alzheimer's Disease. <i>Annals of Neurology</i> , 2021 , 90, 751-762	9.4	3
28	Templated β -Synuclein Inclusion Formation Is Independent of Endogenous Tau. <i>ENeuro</i> , 2021 , 8,	3.9	3
27	Medical decision-making in progressive supranuclear palsy: A comparison to other neurodegenerative disorders. <i>Parkinsonism and Related Disorders</i> , 2019 , 61, 77-81	3.6	3
26	Dysregulated clock gene expression and abnormal diurnal regulation of hippocampal inhibitory transmission and spatial memory in amyloid precursor protein transgenic mice. <i>Neurobiology of Disease</i> , 2021 , 158, 105454	7.5	3
25	Biomarker Localization, Analysis, Visualization, Extraction, and Registration (BLAzER) Methodology for Research and Clinical Brain PET Applications. <i>Journal of Alzheimers Disease</i> , 2019 , 70, 1241-1257	4.3	2
24	Non-Coding and Loss-of-Function Coding Variants in TET2 are Associated with Multiple Neurodegenerative Diseases		2
23	Racial Differences in Alzheimer's Disease Specialist Encounters Are Associated with Usage of Molecular Imaging and Dementia Medications: An Enterprise-Wide Analysis Using i2b2. <i>Journal of Alzheimers Disease</i> , 2021 , 79, 543-557	4.3	2
22	O3-06-01: Vascular amyloidosis impairs the gliovascular unit in a mouse model of Alzheimer's disease 2015 , 11, P230-P230		1
21	Regulation of adenylyl cyclase in LTP. <i>Behavioral and Brain Sciences</i> , 1995 , 18, 485	0.9	1
20	Functional insights from biophysical study of TREM2 interactions with ApoE and A β -42		1
19	Genome sequencing for early-onset dementia: high diagnostic yield and frequent observation of multiple contributory alleles		1
18	A peptide inhibitor of Tau-SH3 interactions ameliorates amyloid- β toxicity		1

17	Dynamic Amyloid PET: Relationships to Flortaucipir Tau PET Measures. <i>Journal of Nuclear Medicine</i> , 2021 ,	8.9	1
16	Proposed research criteria for prodromal behavioural variant frontotemporal dementia.. <i>Brain</i> , 2022 ,	11.2	1
15	Manifestations of Alzheimer's disease genetic risk in the blood are evident in a multiomic analysis in healthy adults aged 18 to 90.. <i>Scientific Reports</i> , 2022 , 12, 6117	4.9	1
14	TAU ablation in excitatory neurons and postnatal TAU knockdown reduce epilepsy, SUDEP, and autism behaviors in a Dravet syndrome model.. <i>Science Translational Medicine</i> , 2022 , 14, eabm5527	17.5	1
13	Periodontal Infection Aggravates C1q-Mediated Microglial Activation and Synapse Pruning in Alzheimer's Mice.. <i>Frontiers in Immunology</i> , 2022 , 13, 816640	8.4	0
12	Dissection of the polygenic architecture of neuronal A β production using a large sample of individual iPSC lines derived from Alzheimer's disease patients. <i>Nature Aging</i> , 2022 , 2, 125-139		0
11	Comprehensive cross-sectional and longitudinal analyses of plasma neurofilament light across FTD spectrum disorders.. <i>Cell Reports Medicine</i> , 2022 , 3, 100607	18	0
10	Pathophysiology and animal models of frontotemporal dementia 197-210		
9	Animal models of dementia 77-93		
8	Animal models of dementia 131-141		
7	Association of Performance on the Financial Capacity Instrument Short Form With Brain Amyloid Load and Cortical Thickness in Older Adults. <i>Neurology: Clinical Practice</i> , 10.1212/CPJ.0000000000001157	7.7	
6	Early retinal neurodegeneration and impaired Ran-mediated nuclear import of TDP-43 in progranulin-deficient FTLD. <i>Journal of Cell Biology</i> , 2014 , 206, 2065OIA144	7.3	
5	Development of a multi-component intervention to promote participation of Black and Latinx individuals in biomedical research. <i>Journal of Clinical and Translational Science</i> , 2021 , 5, e134	0.4	
4	Aberrant regulation of a poison exon caused by a non-coding variant in a mouse model of Scn1a-associated epileptic encephalopathy 2021 , 17, e1009195		
3	Aberrant regulation of a poison exon caused by a non-coding variant in a mouse model of Scn1a-associated epileptic encephalopathy 2021 , 17, e1009195		
2	Aberrant regulation of a poison exon caused by a non-coding variant in a mouse model of Scn1a-associated epileptic encephalopathy 2021 , 17, e1009195		
1	Aberrant regulation of a poison exon caused by a non-coding variant in a mouse model of Scn1a-associated epileptic encephalopathy 2021 , 17, e1009195		