

John D Fryer

List of Publications by Year in descending order

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67
papers

6,332
citations

109321

35
h-index

106344

65
g-index

69
all docs

69
docs citations

69
times ranked

10280
citing authors

#	ARTICLE	IF	CITATIONS
1	TIA1 Mutations in Amyotrophic Lateral Sclerosis and Frontotemporal Dementia Promote Phase Separation and Alter Stress Granule Dynamics. <i>Neuron</i> , 2017, 95, 808-816.e9.	8.1	493
2	Apolipoprotein E Is a Ligand for Triggering Receptor Expressed on Myeloid Cells 2 (TREM2). <i>Journal of Biological Chemistry</i> , 2015, 290, 26043-26050.	3.4	395
3	<i>C9ORF72</i> repeat expansions in mice cause TDP-43 pathology, neuronal loss, and behavioral deficits. <i>Science</i> , 2015, 348, 1151-1154.	12.6	332
4	<i>C9ORF72</i> poly(GA) aggregates sequester and impair HR23 and nucleocytoplasmic transport proteins. <i>Nature Neuroscience</i> , 2016, 19, 668-677.	14.8	268
5	Soluble TREM2 induces inflammatory responses and enhances microglial survival. <i>Journal of Experimental Medicine</i> , 2017, 214, 597-607.	8.5	258
6	Diet and exercise orthogonally alter the gut microbiome and reveal independent associations with anxiety and cognition. <i>Molecular Neurodegeneration</i> , 2014, 9, 36.	10.8	250
7	Human Apolipoprotein E4 Alters the Amyloid- β 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, 2803-2810.	3.6	243
8	TREM2 Promotes Microglial Survival by Activating Wnt/ β -Catenin Pathway. <i>Journal of Neuroscience</i> , 2017, 37, 1772-1784.	3.6	242
9	Poly(GR) impairs protein translation and stress granule dynamics in <i>C9orf72</i> -associated frontotemporal dementia and amyotrophic lateral sclerosis. <i>Nature Medicine</i> , 2018, 24, 1136-1142.	30.7	241
10	Large-scale topology and the default mode network in the mouse connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18745-18750.	7.1	228
11	Voluntary and forced exercise differentially alters the gut microbiome in C57BL/6J mice. <i>Journal of Applied Physiology</i> , 2015, 118, 1059-1066.	2.5	212
12	Clusterin contributes to caspase-3-independent brain injury following neonatal hypoxia-ischemia. <i>Nature Medicine</i> , 2001, 7, 338-343.	30.7	196
13	Heterochromatin anomalies and double-stranded RNA accumulation underlie <i>C9orf72</i> poly(PR) toxicity. <i>Science</i> , 2019, 363, .	12.6	181
14	Poly(GP) proteins are a useful pharmacodynamic marker for <i>C9ORF72</i> -associated amyotrophic lateral sclerosis. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	179
15	Deficiency in LRP6-Mediated Wnt Signaling Contributes to Synaptic Abnormalities and Amyloid Pathology in Alzheimer's Disease. <i>Neuron</i> , 2014, 84, 63-77.	8.1	168
16	Microglial translational profiling reveals a convergent APOE pathway from aging, amyloid, and tau. <i>Journal of Experimental Medicine</i> , 2018, 215, 2235-2245.	8.5	167
17	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, 7889-7896.	3.6	139
18	Systematic analysis of dark and camouflaged genes reveals disease-relevant genes hiding in plain sight. <i>Genome Biology</i> , 2019, 20, 97.	8.8	122

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19	The Low Density Lipoprotein Receptor Regulates the Level of Central Nervous System Human and Murine Apolipoprotein E but Does Not Modify Amyloid Plaque Pathology in PDAPP Mice. <i>Journal of Biological Chemistry</i> , 2005, 280, 25754-25759.	3.4	121
20	TREM2 in CNS homeostasis and neurodegenerative disease. <i>Molecular Neurodegeneration</i> , 2015, 10, 43.	10.8	115
21	Long-read sequencing across the C9orf72 GGGGCC™ repeat expansion: implications for clinical use and genetic discovery efforts in human disease. <i>Molecular Neurodegeneration</i> , 2018, 13, 46.	10.8	111
22	Aberrant deposition of stress granule-resident proteins linked to C9orf72-associated TDP-43 proteinopathy. <i>Molecular Neurodegeneration</i> , 2019, 14, 9.	10.8	111
23	ABCA7 Deficiency Accelerates Amyloid- β^2 Generation and Alzheimer's Neuronal Pathology. <i>Journal of Neuroscience</i> , 2016, 36, 3848-3859.	3.6	109
24	APOE ϵ^2 is associated with increased tau pathology in primary tauopathy. <i>Nature Communications</i> , 2018, 9, 4388.	12.8	100
25	Loss of clusterin shifts amyloid deposition to the cerebrovasculature via disruption of perivascular drainage pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6962-E6971.	7.1	96
26	APOE4 exacerbates β -synuclein pathology and related toxicity independent of amyloid. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	90
27	Opposing roles of the triggering receptor expressed on myeloid cells 2 and triggering receptor expressed on myeloid cells-like transcript 2 in microglia activation. <i>Neurobiology of Aging</i> , 2016, 42, 132-141.	3.1	89
28	APOE2 eases cognitive decline during Aging: Clinical and preclinical evaluations. <i>Annals of Neurology</i> , 2016, 79, 758-774.	5.3	77
29	Impact of sex and APOE4 on cerebral amyloid angiopathy in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2016, 132, 225-234.	7.7	73
30	Potentially Modifiable Risk Factors for Long-Term Cognitive Impairment After Critical Illness: A Systematic Review. <i>Mayo Clinic Proceedings</i> , 2018, 93, 68-82.	3.0	69
31	Tau deposition drives neuropathological, inflammatory and behavioral abnormalities independently of neuronal loss in a novel mouse model. <i>Human Molecular Genetics</i> , 2015, 24, 6198-6212.	2.9	52
32	Behavioral and transcriptomic analysis of Trem2-null mice: not all knockout mice are created equal. <i>Human Molecular Genetics</i> , 2018, 27, 211-223.	2.9	50
33	Severe amygdala dysfunction in a MAPT transgenic mouse model of frontotemporal dementia. <i>Neurobiology of Aging</i> , 2014, 35, 1769-1777.	3.1	48
34	Derivation and validation of the automated search algorithms to identify cognitive impairment and dementia in electronic health records. <i>Journal of Critical Care</i> , 2017, 37, 202-205.	2.2	46
35	Clusterin secreted from astrocyte promotes excitatory synaptic transmission and ameliorates Alzheimer's disease neuropathology. <i>Molecular Neurodegeneration</i> , 2021, 16, 5.	10.8	44
36	Vascular ApoE4 Impairs Behavior by Modulating Gliovascular Function. <i>Neuron</i> , 2021, 109, 438-447.e6.	8.1	42

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37	Hexanucleotide Repeat Expansions in c9FTD/ALS and SCA36 Confer Selective Patterns of Neurodegeneration In Vivo. <i>Cell Reports</i> , 2020, 31, 107616.	6.4	37
38	<i>APOE3</i> -Jacksonville (V236E) variant reduces self-aggregation and risk of dementia. <i>Science Translational Medicine</i> , 2021, 13, eabc9375.	12.4	37
39	Capicua deficiency induces autoimmunity and promotes follicular helper T cell differentiation via derepression of ETV5. <i>Nature Communications</i> , 2017, 8, 16037.	12.8	36
40	Loss of Tmem106b exacerbates c9FTD pathologies and causes motor deficits in granulin-deficient mice. <i>EMBO Reports</i> , 2020, 21, e50197.	4.5	35
41	Mitophagy alterations in Alzheimer's disease are associated with granulovacuolar degeneration and early tau pathology. <i>Alzheimer's and Dementia</i> , 2021, 17, 417-430.	0.8	34
42	APOE2 is associated with longevity independent of Alzheimer's disease. <i>ELife</i> , 2020, 9, .	6.0	33
43	Toward allele-specific targeting therapy and pharmacodynamic marker for spinocerebellar ataxia type 3. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	32
44	Deficiency of Capicua disrupts bile acid homeostasis. <i>Scientific Reports</i> , 2015, 5, 8272.	3.3	28
45	Risk Factors for Persistent Cognitive Impairment After Critical Illness, Nested Case-Control Study. <i>Critical Care Medicine</i> , 2018, 46, 1977-1984.	0.9	28
46	Subacute ibuprofen treatment rescues the synaptic and cognitive deficits in advanced-aged mice. <i>Neurobiology of Aging</i> , 2017, 53, 112-121.	3.1	26
47	Astrocyte-derived clusterin suppresses amyloid formation in vivo. <i>Molecular Neurodegeneration</i> , 2020, 15, 71.	10.8	26
48	Neonatal AAV delivery of alpha-synuclein induces pathology in the adult mouse brain. <i>Acta Neuropathologica Communications</i> , 2017, 5, 51.	5.2	24
49	Clusterin ameliorates tau pathology in vivo by inhibiting fibril formation. <i>Acta Neuropathologica Communications</i> , 2020, 8, 210.	5.2	24
50	Activation of FAK/Rac1/Cdc42-GTPase signaling ameliorates impaired microglial migration response to A β ₄₂ in triggering receptor expressed on myeloid cells 2 loss-of-function murine models. <i>FASEB Journal</i> , 2020, 34, 10984-10997.	0.5	24
51	Culture shock: microglial heterogeneity, activation, and disrupted single-cell microglial networks in vitro. <i>Molecular Neurodegeneration</i> , 2022, 17, 26.	10.8	24
52	Identification of plexin A4 as a novel clusterin receptor links two Alzheimer's disease risk genes. <i>Human Molecular Genetics</i> , 2016, 25, 3467-3475.	2.9	21
53	Loss of Tmem106b is unable to ameliorate frontotemporal dementia-like phenotypes in an AAV mouse model of C9ORF72-repeat induced toxicity. <i>Acta Neuropathologica Communications</i> , 2018, 6, 42.	5.2	20
54	The Bad Seed in Alzheimer's Disease. <i>Neuron</i> , 2005, 47, 167-168.	8.1	19

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55	Long-read targeted sequencing uncovers clinicopathological associations for <i>C9orf72</i> -linked diseases. <i>Brain</i> , 2021, 144, 1082-1088.	7.6	17
56	Urine levels of the polyglutamine ataxin-3 protein are elevated in patients with spinocerebellar ataxia type 3. <i>Parkinsonism and Related Disorders</i> , 2021, 89, 151-154.	2.2	9
57	Loss of <i>Tmem106b</i> leads to cerebellum Purkinje cell death and motor deficits. <i>Brain Pathology</i> , 2021, 31, e12945.	4.1	8
58	Widespread choroid plexus contamination in sampling and profiling of brain tissue. <i>Molecular Psychiatry</i> , 2022, 27, 1839-1847.	7.9	7
59	Estrous Cycle Modulation of Feeding and Relaxin-3/Rxrp3 mRNA Expression - Implications for Estradiol. <i>Neuroendocrinology</i> , 2020, 111, 1201-1218.	2.5	6
60	TRIO gene segregation in a family with cerebellar ataxia. <i>Neurologia I Neurochirurgia Polska</i> , 2018, 52, 743-749.	1.2	5
61	A matter of balance. <i>ELife</i> , 2018, 7, .	6.0	5
62	Plasma PolyQ-ATXN3 Levels Associate With Cerebellar Degeneration and Behavioral Abnormalities in a New AAV-Based SCA3 Mouse Model. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 863089.	3.7	5
63	Enhanced phosphorylation of T153 in soluble tau is a defining biochemical feature of the A152T tau risk variant. <i>Acta Neuropathologica Communications</i> , 2019, 7, 10.	5.2	3
64	[P183]: LOSS OF CLUSTERIN SHIFTS AMYLOID DEPOSITION TO THE CEREBROVASCULATURE VIA DISRUPTION OF PERIVASCULAR DRAINAGE PATHWAYS. <i>Alzheimer's and Dementia</i> , 2017, 13, P312.	0.8	1
65	P4065: APOE4 CONDITIONALLY EXPRESSED IN CEREBROVASCULATURE IMPAIRS ENDOTHELIAL FUNCTIONS AND INDUCES COGNITIVE DEFICITS. <i>Alzheimer's and Dementia</i> , 2018, 14, P1457.	0.8	1
66	F2-03-02: AGE-DEPENDENT NEUROPROTECTIVE EFFECTS OF CLUSTERIN IN THE SETTING OF NEUROINFLAMMATION. , 2014, 10, P160-P161.		0
67	[P125]: THE MOLECULAR CHAPERONE BRICHOS INHIBITS A β 2 AGGREGATION AND OTHER NEUROPATHOLOGICAL PHENOTYPES IN A MOUSE MODEL OF A β 2 AMYLOIDOSIS. <i>Alzheimer's and Dementia</i> , 2017, 13, P1304.	0.8	0