

Patrick M Sullivan

List of Publications by Year in descending order

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62
papers

5,981
citations

87888

38
h-index

133252

59
g-index

69
all docs

69
docs citations

69
times ranked

6841
citing authors

#	ARTICLE	IF	CITATIONS
1	ApoE4 markedly exacerbates tau-mediated neurodegeneration in a mouse model of tauopathy. <i>Nature</i> , 2017, 549, 523-527.	27.8	852
2	Targeted Replacement of the Mouse Apolipoprotein E Gene with the Common Human APOE3 Allele Enhances Diet-induced Hypercholesterolemia and Atherosclerosis. <i>Journal of Biological Chemistry</i> , 1997, 272, 17972-17980.	3.4	486
3	Apo E structure determines VLDL clearance and atherosclerosis risk in mice. <i>Journal of Clinical Investigation</i> , 1999, 103, 1579-1586.	8.2	268
4	The cholesterol metabolite 27 hydroxycholesterol facilitates breast cancer metastasis through its actions on immune cells. <i>Nature Communications</i> , 2017, 8, 864.	12.8	261
5	Microglia drive APOE-dependent neurodegeneration in a tauopathy mouse model. <i>Journal of Experimental Medicine</i> , 2019, 216, 2546-2561.	8.5	244
6	Human Apolipoprotein E4 Alters the Amyloid- $\text{A}\beta$ 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, 2803-2810.	3.6	243
7	Human APOE Isoform-Dependent Effects on Brain $\text{A}\beta$ Levels in PDAPP Transgenic Mice. <i>Journal of Neuroscience</i> , 2009, 29, 6771-6779.	3.6	229
8	Apolipoprotein E4 Impairs Neuronal Insulin Signaling by Trapping Insulin Receptor in the Endosomes. <i>Neuron</i> , 2017, 96, 115-129.e5.	8.1	217
9	Human Apolipoprotein E2, E3, and E4 Isoform-Specific Transgenic Mice: Human-like Pattern of Glial and Neuronal Immunoreactivity in Central Nervous System Not Observed in Wild-Type Mice. <i>Neurobiology of Disease</i> , 1996, 3, 229-245.	4.4	170
10	Disruption of Arterial Perivascular Drainage of Amyloid- $\text{A}\beta$ from the Brains of Mice Expressing the Human APOE ϵ 4 Allele. <i>PLoS ONE</i> , 2012, 7, e41636.	2.5	138
11	Age-Dependent Effects of apoE Reduction Using Antisense Oligonucleotides in a Model of $\text{A}\beta$ -amyloidosis. <i>Neuron</i> , 2017, 96, 1013-1023.e4.	8.1	134
12	Complement Factor H Inhibits CD47-Mediated Resolution of Inflammation. <i>Immunity</i> , 2017, 46, 261-272.	14.3	132
13	Human apoE targeted replacement mouse lines: h-apoE4 and h-apoE3 mice differ on spatial memory performance and avoidance behavior. <i>Behavioural Brain Research</i> , 2005, 159, 1-14.	2.2	127
14	Human apoE4-targeted replacement mice display synaptic deficits in the absence of neuropathology. <i>Neurobiology of Disease</i> , 2005, 18, 390-398.	4.4	122
15	Middle-aged human apoE4 targeted-replacement mice show retention deficits on a wide range of spatial memory tasks. <i>Behavioural Brain Research</i> , 2008, 193, 174-182.	2.2	121
16	Production and characterization of astrocyte-derived human apolipoprotein E isoforms from immortalized astrocytes and their interactions with amyloid- $\text{A}\beta$. <i>Neurobiology of Disease</i> , 2005, 19, 66-76.	4.4	110
17	ApoE isoform affects LTP in human targeted replacement mice. <i>NeuroReport</i> , 2004, 15, 2655-2658.	1.2	107
18	Reduced levels of human apoE4 protein in an animal model of cognitive impairment. <i>Neurobiology of Aging</i> , 2011, 32, 791-801.	3.1	106

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19	Targeting of nonlipidated, aggregated apoE with antibodies inhibits amyloid accumulation. <i>Journal of Clinical Investigation</i> , 2018, 128, 2144-2155.	8.2	105
20	<i>APOE</i> genotype regulates pathology and disease progression in synucleinopathy. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	102
21	Marked regional differences of brain human apolipoprotein e expression in targeted replacement mice. <i>Neuroscience</i> , 2004, 124, 725-733.	2.3	101
22	APOE4-mediated amyloid- β pathology depends on its neuronal receptor LRP1. <i>Journal of Clinical Investigation</i> , 2019, 129, 1272-1277.	8.2	96
23	ApoE isoform-specific effects on LTP: blockade by oligomeric amyloid- β 42. <i>Neurobiology of Disease</i> , 2005, 18, 75-82.	4.4	81
24	Apolipoprotein E isoform mediated regulation of nitric oxide release 1,2 1Guest Editors: Mark A. Smith and George Perry 2This article is part of a series of reviews on "Causes and Consequences of Oxidative Stress in Alzheimer's Disease." The full list of papers may be found on the homepage of the journal.. <i>Free Radical Biology and Medicine</i> , 2002, 32, 1071-1075.	2.9	79
25	ApoE isoform-dependent changes in hippocampal synaptic function. <i>Molecular Neurodegeneration</i> , 2009, 4, 21.	10.8	78
26	Traumatic Brain Injury Exacerbates Neurodegenerative Pathology: Improvement with an Apolipoprotein E-Based Therapeutic. <i>Journal of Neurotrauma</i> , 2010, 27, 1983-1995.	3.4	76
27	APOE immunotherapy reduces cerebral amyloid angiopathy and amyloid plaques while improving cerebrovascular function. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	76
28	APOE Isoforms Control Pathogenic Subretinal Inflammation in Age-Related Macular Degeneration. <i>Journal of Neuroscience</i> , 2015, 35, 13568-13576.	3.6	75
29	The APOE4 allele shows opposite sex bias in microbleeds and Alzheimer's disease of humans and mice. <i>Neurobiology of Aging</i> , 2016, 37, 47-57.	3.1	70
30	Apolipoprotein E low density lipoprotein receptor interaction affects spatial memory retention and brain ApoE levels in an isoform-dependent manner. <i>Neurobiology of Disease</i> , 2014, 64, 150-162.	4.4	67
31	A β 42 neurotoxicity in primary co-cultures: Effect of apoE isoform and A β conformation. <i>Neurobiology of Aging</i> , 2007, 28, 1139-1147.	3.1	64
32	Progressive loss of synaptic integrity in human apolipoprotein E4 targeted replacement mice and attenuation by apolipoprotein E2. <i>Neuroscience</i> , 2010, 171, 1265-1272.	2.3	63
33	Mortalin is regulated by APOE in hippocampus of AD patients and by human APOE in TR mice. <i>Neurobiology of Aging</i> , 2007, 28, 1853-1862.	3.1	61
34	Intracerebral adeno-associated virus gene delivery of apolipoprotein E2 markedly reduces brain amyloid pathology in Alzheimer's disease mouse models. <i>Neurobiology of Aging</i> , 2016, 44, 159-172.	3.1	59
35	Pharmacogenomic Effects of Apolipoprotein E on Intracerebral Hemorrhage. <i>Stroke</i> , 2009, 40, 632-639.	2.0	57
36	25-Hydroxycholesterol amplifies microglial IL-1 β production in an apoE isoform-dependent manner. <i>Journal of Neuroinflammation</i> , 2020, 17, 192.	7.2	57

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37	Apolipoprotein E level and cholesterol are associated with reduced synaptic amyloid beta in Alzheimer's disease and apoE TR mouse cortex. <i>Acta Neuropathologica</i> , 2012, 123, 39-52.	7.7	48
38	Murine versus human apolipoprotein E4: differential facilitation of and co-localization in cerebral amyloid angiopathy and amyloid plaques in APP transgenic mouse models. <i>Acta Neuropathologica Communications</i> , 2015, 3, 70.	5.2	45
39	A simple, efficient tool for assessment of mice after unilateral cortex injury. <i>Journal of Neuroscience Methods</i> , 2008, 168, 431-442.	2.5	42
40	Apolipoprotein E4 Reduction with Antisense Oligonucleotides Decreases Neurodegeneration in a Tauopathy Model. <i>Annals of Neurology</i> , 2021, 89, 952-966.	5.3	36
41	A deficit in astroglial organization causes the impaired reactive sprouting in human apolipoprotein E4 targeted replacement mice. <i>Neurobiology of Disease</i> , 2006, 21, 505-514.	4.4	34
42	APOE2 is associated with longevity independent of Alzheimer's disease. <i>ELife</i> , 2020, 9, .	6.0	33
43	Western-type diet modulates inflammatory responses and impairs functional outcome following permanent middle cerebral artery occlusion in aged mice expressing the human apolipoprotein E4 allele. <i>Journal of Neuroinflammation</i> , 2013, 10, 102.	7.2	32
44	Emergence of a seizure phenotype in aged apolipoprotein epsilon 4 targeted replacement mice. <i>Brain Research</i> , 2012, 1467, 120-132.	2.2	31
45	Altered neurotransmission in the lateral amygdala in aged human apoE4 targeted replacement mice. <i>Neurobiology of Aging</i> , 2014, 35, 2046-2052.	3.1	25
46	APOE Genotype Differentially Modulates Effects of Anti-A β , Passive Immunization in APP Transgenic Mice. <i>Molecular Neurodegeneration</i> , 2017, 12, 12.	10.8	25
47	Estradiol enhances long term potentiation in hippocampal slices from aged apoE4 TR mice. <i>Hippocampus</i> , 2007, 17, 1153-1157.	1.9	24
48	Blockade of nicotinic acetylcholine receptors suppresses hippocampal long-term potentiation in wild-type but not ApoE4 targeted replacement mice. <i>Journal of Neuroscience Research</i> , 2005, 82, 771-777.	2.9	23
49	A Novel Analytic Technique to Measure Associations Between Circulating Biomarkers and Physical Performance Across the Adult Life Span. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 196-202.	3.6	23
50	Human Apolipoprotein E4 Targeted Replacement Mice Show Increased Prevalence of Intracerebral Hemorrhage Associated with Vascular Amyloid Deposition. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2008, 17, 303-311.	1.6	22
51	ApoE mimetic improves pathology and memory in a model of Alzheimer's disease. <i>Brain Research</i> , 2020, 1733, 146685.	2.2	22
52	Apolipoprotein E modifies the CNS response to injury via a histamine-mediated pathway. <i>Neurological Research</i> , 2007, 29, 243-250.	1.3	17
53	APOE4 genetic polymorphism results in impaired recovery in a repeated mild traumatic brain injury model and treatment with Bryostatin-1 improves outcomes. <i>Scientific Reports</i> , 2020, 10, 19919.	3.3	16
54	Influence of Western diet and APOE genotype on Alzheimer's disease risk. <i>Neurobiology of Disease</i> , 2020, 138, 104790.	4.4	15

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55	Intracerebral Expression of AAV-APOE4 Is Not Sufficient to Alter Tau Burden in Two Distinct Models of Tauopathy. <i>Molecular Neurobiology</i> , 2020, 57, 1986-2001.	4.0	9
56	Initial Observations of Key Features of Age-Related Macular Degeneration in APOE Targeted Replacement Mice. , 2006, 572, 109-117.		4
57	Impact of APOE genotype on prion-type propagation of tauopathy. <i>Acta Neuropathologica Communications</i> , 2022, 10, 57.	5.2	4
58	Apolipoprotein E4 Effects a Distinct Transcriptomic Profile and Dendritic Arbor Characteristics in Hippocampal Neurons Cultured in vitro. <i>Frontiers in Aging Neuroscience</i> , 2022, 14, 845291.	3.4	2
59	O5-03-01: Apolipoprotein E Genotype Differentially Modulates Effects of ANTI-AB Immunotherapy. , 2016, 12, P381-P382.		1
60	APOE-Based Models of "Pre-Dementia" <i>Neuromethods</i> , 2011, , 439-447.	0.3	1
61	[P1167]: AAV-MEDIATED EXPRESSION OF HUMAN LDLR MARKEDLY REDUCES AMYLOID DEPOSITION IN A MOUSE MODEL OF AMYLOID-AMYLOIDOSIS. <i>Alzheimer's and Dementia</i> , 2017, 13, P307.	0.8	0
62	Mechanisms of neuroinflammation with APOE4 implicate CPLA2. <i>Alzheimer's and Dementia</i> , 2020, 16, e041173.	0.8	0