

Robert Vassar

List of Publications by Year in descending order

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87
papers

17,882
citations

29994

54
h-index

53109

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docs citations

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times ranked

16129
citing authors

#	ARTICLE	IF	CITATIONS
1	Intraneuronal beta-Amyloid Aggregates, Neurodegeneration, and Neuron Loss in Transgenic Mice with Five Familial Alzheimer's Disease Mutations: Potential Factors in Amyloid Plaque Formation. <i>Journal of Neuroscience</i> , 2006, 26, 10129-10140.	1.7	2,607
2	Topographic organization of sensory projections to the olfactory bulb. <i>Cell</i> , 1994, 79, 981-991.	13.5	1,172
3	Mice deficient in BACE1, the Alzheimer's β -secretase, have normal phenotype and abolished β -amyloid generation. <i>Nature Neuroscience</i> , 2001, 4, 231-232.	7.1	978
4	Spatial segregation of odorant receptor expression in the mammalian olfactory epithelium. <i>Cell</i> , 1993, 74, 309-318.	13.5	811
5	The secretases: enzymes with therapeutic potential in Alzheimer disease. <i>Nature Reviews Neurology</i> , 2010, 6, 99-107.	4.9	702
6	<scp>APP</scp> mouse models for Alzheimer's disease preclinical studies. <i>EMBO Journal</i> , 2017, 36, 2473-2487.	3.5	530
7	Targeting the β secretase BACE1 for Alzheimer's disease therapy. <i>Lancet Neurology</i> , The, 2014, 13, 319-329.	4.9	527
8	BACE1 Deficiency Rescues Memory Deficits and Cholinergic Dysfunction in a Mouse Model of Alzheimer's Disease. <i>Neuron</i> , 2004, 41, 27-33.	3.8	506
9	The β -Secretase Enzyme BACE in Health and Alzheimer's Disease: Regulation, Cell Biology, Function, and Therapeutic Potential. <i>Journal of Neuroscience</i> , 2009, 29, 12787-12794.	1.7	498
10	Anti-Inflammatory Drug Therapy Alters β -Amyloid Processing and Deposition in an Animal Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2003, 23, 7504-7509.	1.7	473
11	Mutant keratin expression in transgenic mice causes marked abnormalities resembling a human genetic skin disease. <i>Cell</i> , 1991, 64, 365-380.	13.5	425
12	The Alzheimer's disease Beta-secretase enzyme, BACE1. <i>Molecular Neurodegeneration</i> , 2007, 2, 22.	4.4	386
13	Phosphorylation of the Translation Initiation Factor eIF2 β Increases BACE1 Levels and Promotes Amyloidogenesis. <i>Neuron</i> , 2008, 60, 988-1009.	3.8	383
14	The β -Secretase BACE1 in Alzheimer's Disease. <i>Biological Psychiatry</i> , 2021, 89, 745-756.	0.7	336
15	β -Site Amyloid Precursor Protein Cleaving Enzyme 1 Levels Become Elevated in Neurons around Amyloid Plaques: Implications for Alzheimer's Disease Pathogenesis. <i>Journal of Neuroscience</i> , 2007, 27, 3639-3649.	1.7	333
16	BACE1 inhibitor drugs in clinical trials for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2014, 6, 89.	3.0	322
17	BACE1: The β -Secretase Enzyme in Alzheimer's Disease. <i>Journal of Molecular Neuroscience</i> , 2004, 23, 105-114.	1.1	314
18	β -Generating Enzymes. <i>Neuron</i> , 2000, 27, 419-422.	3.8	311

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19	Neuron loss in the 5XFAD mouse model of Alzheimer's disease correlates with intraneuronal A β ⁴² accumulation and Caspase-3 activation. <i>Molecular Neurodegeneration</i> , 2013, 8, 2.	4.4	278
20	BACE1 gene deletion prevents neuron loss and memory deficits in 5XFAD APP/PS1 transgenic mice. <i>Neurobiology of Disease</i> , 2007, 26, 134-145.	2.1	272
21	Function, therapeutic potential and cell biology of <scp>BACE</scp> proteases: current status and future prospects. <i>Journal of Neurochemistry</i> , 2014, 130, 4-28.	2.1	269
22	Expression Analysis of BACE2 in Brain and Peripheral Tissues. <i>Journal of Biological Chemistry</i> , 2000, 275, 20647-20651.	1.6	264
23	Temporal memory deficits in Alzheimer's mouse models: rescue by genetic deletion of BACE1. <i>European Journal of Neuroscience</i> , 2006, 23, 251-260.	1.2	256
24	Energy Inhibition Elevates A β -Secretase Levels and Activity and Is Potentially Amyloidogenic in APP Transgenic Mice: Possible Early Events in Alzheimer's Disease Pathogenesis. <i>Journal of Neuroscience</i> , 2005, 25, 10874-10883.	1.7	235
25	A Furin-like Convertase Mediates Propeptide Cleavage of BACE, the Alzheimer's A β -Secretase. <i>Journal of Biological Chemistry</i> , 2000, 275, 37712-37717.	1.6	234
26	The innate immunity protein IFITM3 modulates A β -secretase in Alzheimer's disease. <i>Nature</i> , 2020, 586, 735-740.	13.7	219
27	The Role of Amyloid Precursor Protein Processing by BACE1, the A β -Secretase, in Alzheimer Disease Pathophysiology. <i>Journal of Biological Chemistry</i> , 2008, 283, 29621-29625.	1.6	218
28	Characterization of Alzheimer's A β -Secretase Protein BACE. <i>Journal of Biological Chemistry</i> , 2000, 275, 21099-21106.	1.6	208
29	A β -Secretase (BACE) as a drug target for Alzheimer's disease. <i>Advanced Drug Delivery Reviews</i> , 2002, 54, 1589-1602.	6.6	197
30	Presynaptic dystrophic neurites surrounding amyloid plaques are sites of microtubule disruption, BACE1 elevation, and increased A β generation in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2016, 132, 235-256.	3.9	193
31	The Alzheimer's A β -secretase BACE1 localizes to normal presynaptic terminals and to dystrophic presynaptic terminals surrounding amyloid plaques. <i>Acta Neuropathologica</i> , 2013, 126, 329-352.	3.9	190
32	BACE1 (A β -secretase) knockout mice do not acquire compensatory gene expression changes or develop neural lesions over time. <i>Neurobiology of Disease</i> , 2003, 14, 81-88.	2.1	160
33	The A β -Secretase, BACE: A Prime Drug Target for Alzheimer's Disease. <i>Journal of Molecular Neuroscience</i> , 2001, 17, 157-170.	1.1	158
34	A β reduction in BACE1 heterozygous null 5XFAD mice is associated with transgenic APP level. <i>Molecular Neurodegeneration</i> , 2015, 10, 1.	4.4	146
35	Novel Alzheimer Disease Risk Loci and Pathways in African American Individuals Using the African Genome Resources Panel. <i>JAMA Neurology</i> , 2021, 78, 102.	4.5	144
36	Alzheimer Disease A β Production in the Absence of S-Palmitoylation-dependent Targeting of BACE1 to Lipid Rafts. <i>Journal of Biological Chemistry</i> , 2009, 284, 3793-3803.	1.6	137

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37	β -Site Amyloid Precursor Protein (APP)-cleaving Enzyme 1 (BACE1)-deficient Mice Exhibit a Close Homolog of L1 (CHL1) Loss-of-function Phenotype Involving Axon Guidance Defects. <i>Journal of Biological Chemistry</i> , 2012, 287, 38408-38425.	1.6	134
38	Statins Cause Intracellular Accumulation of Amyloid Precursor Protein, β -Secretase-cleaved Fragments, and Amyloid β -Peptide via an Isoprenoid-dependent Mechanism. <i>Journal of Biological Chemistry</i> , 2005, 280, 18755-18770.	1.6	133
39	Axonal BACE1 dynamics and targeting in hippocampal neurons: a role for Rab11 GTPase. <i>Molecular Neurodegeneration</i> , 2014, 9, 1.	4.4	130
40	A Becn1 mutation mediates hyperactive autophagic sequestration of amyloid oligomers and improved cognition in Alzheimer's disease. <i>PLoS Genetics</i> , 2017, 13, e1006962.	1.5	120
41	β -Amyloid-induced Dynamin 1 Depletion in Hippocampal Neurons. <i>Journal of Biological Chemistry</i> , 2005, 280, 31746-31753.	1.6	114
42	The β -secretase enzyme BACE1 as a therapeutic target for Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2011, 3, 20.	3.0	109
43	Involvement of β -site APP cleaving enzyme 1 (BACE1) in amyloid precursor protein-mediated enhancement of memory and activity-dependent synaptic plasticity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8167-8172.	3.3	107
44	The Alzheimer's β -secretase enzyme BACE1 is required for accurate axon guidance of olfactory sensory neurons and normal glomerulus formation in the olfactory bulb. <i>Molecular Neurodegeneration</i> , 2011, 6, 88.	4.4	95
45	BACE1 Structure and Function in Health and Alzheimers Disease. <i>Current Alzheimer Research</i> , 2008, 5, 100-120.	0.7	87
46	BACE1 ^{-/-} mice exhibit seizure activity that does not correlate with sodium channel level or axonal localization. <i>Molecular Neurodegeneration</i> , 2010, 5, 31.	4.4	85
47	Astrocytes from old Alzheimer's disease mice are impaired in $A\beta$ uptake and in neuroprotection. <i>Neurobiology of Disease</i> , 2016, 96, 84-94.	2.1	85
48	Identification and biology of β -secretase. <i>Journal of Neurochemistry</i> , 2012, 120, 55-61.	2.1	73
49	Axonal organization defects in the hippocampus of adult conditional BACE1 knockout mice. <i>Science Translational Medicine</i> , 2018, 10, .	5.8	66
50	A Function for EHD Family Proteins in Unidirectional Retrograde Dendritic Transport of BACE1 and Alzheimer's Disease $A\beta$ Production. <i>Cell Reports</i> , 2013, 5, 1552-1563.	2.9	65
51	The case for low-level BACE1 inhibition for the prevention of Alzheimer disease. <i>Nature Reviews Neurology</i> , 2021, 17, 703-714.	4.9	65
52	Identification of natural products with neuronal and metabolic benefits through autophagy induction. <i>Autophagy</i> , 2017, 13, 41-56.	4.3	61
53	X11 Proteins Regulate the Translocation of Amyloid β -Protein Precursor (APP) into Detergent-resistant Membrane and Suppress the Amyloidogenic Cleavage of APP by β -Site-cleaving Enzyme in Brain. <i>Journal of Biological Chemistry</i> , 2008, 283, 35763-35771.	1.6	60
54	Amyloid- β 242 alters apolipoprotein E solubility in brains of mice with five familial AD mutations. <i>Journal of Neuroscience Methods</i> , 2011, 196, 51-59.	1.3	58

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55	Inhibiting BACE1 to reverse synaptic dysfunctions in Alzheimer's disease. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 65, 326-340.	2.9	58
56	Cdk5 Protein Inhibition and A β 42 Increase BACE1 Protein Level in Primary Neurons by a Post-transcriptional Mechanism. <i>Journal of Biological Chemistry</i> , 2012, 287, 7224-7235.	1.6	56
57	3K3A-activated protein C blocks amyloidogenic BACE1 pathway and improves functional outcome in mice. <i>Journal of Experimental Medicine</i> , 2019, 216, 279-293.	4.2	55
58	Increased mtDNA mutations with aging promotes amyloid accumulation and brain atrophy in the APP/Ld transgenic mouse model of Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2014, 9, 16.	4.4	54
59	β -Secretase, APP and A β in Alzheimer's Disease. , 2005, , 79-103.		49
60	Molecular Differences and Similarities between Alzheimer's Disease and the 5XFAD Transgenic Mouse Model of Amyloidosis. <i>Biochemistry Insights</i> , 2013, 6, BCL.S13025.	3.3	48
61	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.	2.4	45
62	The Normal and Pathologic Roles of the Alzheimer's β -secretase, BACE1. <i>Current Alzheimer Research</i> , 2014, 11, 441-449.	0.7	40
63	Quantitative Comparison of Dense-Core Amyloid Plaque Accumulation in Amyloid- β Protein Precursor Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 743-761.	1.2	39
64	ER stress is not elevated in the 5XFAD mouse model of Alzheimer's disease. <i>Journal of Biological Chemistry</i> , 2018, 293, 18434-18443.	1.6	37
65	Linking vascular disorders and Alzheimer's disease: Potential involvement of BACE1. <i>Neurobiology of Aging</i> , 2009, 30, 1535-1544.	1.5	35
66	Genetic Inhibition of Phosphorylation of the Translation Initiation Factor eIF2 β Does Not Block A β -Dependent Elevation of BACE1 and APP Levels or Reduce Amyloid Pathology in a Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2014, 9, e101643.	1.1	31
67	BACE1 Mediates HIV-Associated and Excitotoxic Neuronal Damage Through an APP-Dependent Mechanism. <i>Journal of Neuroscience</i> , 2018, 38, 4288-4300.	1.7	31
68	HIV Protease Inhibitors Alter Amyloid Precursor Protein Processing via β -Site Amyloid Precursor Protein Cleaving Enzyme-1 Translational Up-Regulation. <i>American Journal of Pathology</i> , 2017, 187, 91-109.	1.9	29
69	A promising, novel, and unique BACE1 inhibitor emerges in the quest to prevent Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	28
70	Caspase-3 Cleavage of GGA3 Stabilizes BACE: Implications for Alzheimer's Disease. <i>Neuron</i> , 2007, 54, 671-673.	3.8	26
71	ADAM10 Prodomain Mutations Cause Late-Onset Alzheimer's Disease: Not Just the Latest FAD. <i>Neuron</i> , 2013, 80, 250-253.	3.8	26
72	Contribution of GABAergic interneurons to amyloid- β plaque pathology in an APP knock-in mouse model. <i>Molecular Neurodegeneration</i> , 2020, 15, 3.	4.4	26

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73	BACE1 inhibition as a therapeutic strategy for Alzheimer's disease. <i>Journal of Sport and Health Science</i> , 2016, 5, 388-390.	3.3	24
74	A β -accelerated neurodegeneration caused by Alzheimer's-associated <i>ACE</i> variant R1279Q is rescued by angiotensin system inhibition in mice. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	22
75	beta-Secretase, APP and Abeta in Alzheimer's disease. <i>Sub-Cellular Biochemistry</i> , 2005, 38, 79-103.	1.0	19
76	The role of mTORC1 activation in seizure-induced exacerbation of Alzheimer's disease. <i>Brain</i> , 2022, 145, 324-339.	3.7	15
77	Elevated A β 42 in Aged, Non-demented Individuals with Cerebral Atherosclerosis. <i>Current Alzheimer Research</i> , 2013, 10, 785-789.	0.7	14
78	Early detection and personalized medicine: Future strategies against Alzheimer's disease. <i>Progress in Molecular Biology and Translational Science</i> , 2021, 177, 157-173.	0.9	9
79	Oral nimodipine treatment has no effect on amyloid pathology or neuritic dystrophy in the 5XFAD mouse model of amyloidosis. <i>PLoS ONE</i> , 2022, 17, e0263332.	1.1	7
80	Molecular neurodegeneration: basic biology and disease pathways. <i>Molecular Neurodegeneration</i> , 2014, 9, 34.	4.4	4
81	Seeds of Destruction: New Mechanistic Insights into the Role of Apolipoprotein E4 in Alzheimer's Disease. <i>Neuron</i> , 2017, 96, 953-955.	3.8	4
82	Pregabalin Treatment does not Affect Amyloid Pathology in 5XFAD Mice. <i>Current Alzheimer Research</i> , 2021, 18, 283-297.	0.7	3
83	Death by microglia. <i>Journal of Experimental Medicine</i> , 2019, 216, 2451-2452.	4.2	2
84	Modeling genetic diversity in Alzheimer's disease. <i>Lab Animal</i> , 2019, 48, 87-88.	0.2	1
85	Poloxamer-188 Exacerbates Brain Amyloidosis, Presynaptic Dystrophies, and Pathogenic Microglial Activation in 5XFAD Mice. <i>Current Alzheimer Research</i> , 2022, 19, 317-329.	0.7	1
86	PL-04-01: Targeting beta-secretase. , 2013, 9, P677-P677.		0
87	RPS23RG1 May Prevent Ubiquitin-Proteosomal Degradation of Postsynaptic Densities-93 and -95 to Protect Synaptic Function: Implications for Alzheimer's Disease. <i>Biological Psychiatry</i> , 2019, 86, 164-166.	0.7	0