

Gopal Thinakaran

List of Publications by Year in descending order

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104
papers

14,256
citations

26630

56
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33894

99
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105
all docs

105
docs citations

105
times ranked

11778
citing authors

#	ARTICLE	IF	CITATIONS
1	Familial Alzheimer's Disease-Linked Presenilin 1 Variants Elevate A β 42/A β 40 Ratio In Vitro and In Vivo. <i>Neuron</i> , 1996, 17, 1005-1013.	8.1	1,471
2	Endoproteolysis of Presenilin 1 and Accumulation of Processed Derivatives In Vivo. <i>Neuron</i> , 1996, 17, 181-190.	8.1	1,054
3	Amyloid Precursor Protein Trafficking, Processing, and Function. <i>Journal of Biological Chemistry</i> , 2008, 283, 29615-29619.	3.4	906
4	Trafficking and Proteolytic Processing of APP. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a006270-a006270.	6.2	847
5	The role of presenilin cofactors in the γ -secretase complex. <i>Nature</i> , 2003, 422, 438-441.	27.8	839
6	Estrogen reduces neuronal generation of Alzheimer β -amyloid peptides. <i>Nature Medicine</i> , 1998, 4, 447-451.	30.7	545
7	Protein Topology of Presenilin 1. <i>Neuron</i> , 1996, 17, 1023-1030.	8.1	381
8	Association of γ -Secretase with Lipid Rafts in Post-Golgi and Endosome Membranes. <i>Journal of Biological Chemistry</i> , 2004, 279, 44945-44954.	3.4	372
9	Effects of PS1 Deficiency on Membrane Protein Trafficking in Neurons. <i>Neuron</i> , 1998, 21, 1213-1221.	8.1	359
10	Evidence That Levels of Presenilins (PS1 and PS2) Are Coordinately Regulated by Competition for Limiting Cellular Factors. <i>Journal of Biological Chemistry</i> , 1997, 272, 28415-28422.	3.4	302
11	Metabolism of the "Swedish" Amyloid Precursor Protein Variant in Neuro2a (N2a) Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 9390-9397.	3.4	286
12	Expression of Presenilin 1 and 2 (PS1 and PS2) in Human and Murine Tissues. <i>Journal of Neuroscience</i> , 1996, 16, 7513-7525.	3.6	279
13	Comparative evaluation of synaptophysin-based methods for quantification of synapses. <i>Journal of Neurocytology</i> , 1996, 25, 821-828.	1.5	261
14	Alzheimer Amyloid Protein Precursor in the Rat Hippocampus: Transport and Processing through the Perforant Path. <i>Journal of Neuroscience</i> , 1998, 18, 9629-9637.	3.6	249
15	Membrane rafts in Alzheimer's disease beta-amyloid production. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 860-867.	2.4	240
16	Amyloidogenic processing of β -amyloid precursor protein in intracellular compartments. <i>Neurology</i> , 2006, 66, S69-73.	1.1	216
17	Spatial Segregation of γ -Secretase and Substrates in Distinct Membrane Domains. <i>Journal of Biological Chemistry</i> , 2005, 280, 25892-25900.	3.4	203
18	PEN-2 and APH-1 Coordinately Regulate Proteolytic Processing of Presenilin 1. <i>Journal of Biological Chemistry</i> , 2003, 278, 7850-7854.	3.4	202

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19	Presynaptic dystrophic neurites surrounding amyloid plaques are sites of microtubule disruption, BACE1 elevation, and increased A β ² generation in Alzheimer's disease. <i>Acta Neuropathologica</i> , 2016, 132, 235-256.	7.7	193
20	Endoproteolytic Processing and Stabilization of Wild-type and Mutant Presenilin. <i>Journal of Biological Chemistry</i> , 1997, 272, 24536-24541.	3.4	190
21	Stable Association of Presenilin Derivatives and Absence of Presenilin Interactions with APP. <i>Neurobiology of Disease</i> , 1998, 4, 438-453.	4.4	187
22	Amyloid Precursor Proteins Inhibit Heme Oxygenase Activity and Augment Neurotoxicity in Alzheimer's Disease. <i>Neuron</i> , 2000, 28, 461-473.	8.1	168
23	Presenilin 1 Is Required for Maturation and Cell Surface Accumulation of Nicastrin. <i>Journal of Biological Chemistry</i> , 2002, 277, 19236-19240.	3.4	166
24	Characterization of Stanniocalcin 2, a Novel Target of the Mammalian Unfolded Protein Response with Cytoprotective Properties. <i>Molecular and Cellular Biology</i> , 2004, 24, 9456-9469.	2.3	166
25	A Greek Tragedy: The Growing Complexity of Alzheimer Amyloid Precursor Protein Proteolysis. <i>Journal of Biological Chemistry</i> , 2016, 291, 19235-19244.	3.4	151
26	Furin mediates enhanced production of fibrillogenic A β peptides in familial British dementia. <i>Nature Neuroscience</i> , 1999, 2, 984-988.	14.8	146
27	Hyperaccumulation of FAD-linked presenilin 1 variants in vivo. <i>Nature Medicine</i> , 1997, 3, 756-760.	30.7	140
28	Psychosine Accumulates in Membrane Microdomains in the Brain of Krabbe Patients, Disrupting the Raft Architecture. <i>Journal of Neuroscience</i> , 2009, 29, 6068-6077.	3.6	140
29	Alzheimer Disease A β ² Production in the Absence of S-Palmitoylation-dependent Targeting of BACE1 to Lipid Rafts. <i>Journal of Biological Chemistry</i> , 2009, 284, 3793-3803.	3.4	137
30	Upregulation of BiP and CHOP by the unfolded-protein response is independent of presenilin expression. <i>Nature Cell Biology</i> , 2000, 2, 863-870.	10.3	136
31	Axonal BACE1 dynamics and targeting in hippocampal neurons: a role for Rab11 GTPase. <i>Molecular Neurodegeneration</i> , 2014, 9, 1.	10.8	130
32	Pathological and physiological functions of presenilins. <i>Molecular Neurodegeneration</i> , 2006, 1, 4.	10.8	124
33	Presenilin-1 Regulates Intracellular Trafficking and Cell Surface Delivery of A β ² -Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2003, 278, 3446-3454.	3.4	123
34	A Paired RNAi and RabGAP Overexpression Screen Identifies Rab11 as a Regulator of A β ² -Amyloid Production. <i>Cell Reports</i> , 2013, 5, 1536-1551.	6.4	120
35	Identification of Candidate Proteins Binding to Prion Protein. <i>Neurobiology of Disease</i> , 1997, 3, 339-355.	4.4	111
36	APP Receptor? To Be or Not To Be. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 390-411.	8.7	107

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37	Nicastrin Is Critical for Stability and Trafficking but Not Association of Other Presenilin/ β -Secretase Components. <i>Journal of Biological Chemistry</i> , 2005, 280, 17020-17026.	3.4	105
38	Axonal Transport of Mutant Superoxide Dismutase 1 and Focal Axonal Abnormalities in the Proximal Axons of Transgenic Mice. <i>Neurobiology of Disease</i> , 1998, 5, 27-35.	4.4	96
39	Predominant expression of Alzheimer's disease-associated BIN1 in mature oligodendrocytes and localization to white matter tracts. <i>Molecular Neurodegeneration</i> , 2016, 11, 59.	10.8	95
40	Endoplasmic Reticulum Stress-induced Cysteine Protease Activation in Cortical Neurons. <i>Journal of Biological Chemistry</i> , 2001, 276, 44736-44743.	3.4	89
41	Multiple Effects of Aspartate Mutant Presenilin 1 on the Processing and Trafficking of Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2001, 276, 43343-43350.	3.4	87
42	APLP2 Regulates Refractive Error and Myopia Development in Mice and Humans. <i>PLoS Genetics</i> , 2015, 11, e1005432.	3.5	77
43	Increasing membrane cholesterol of neurons in culture recapitulates Alzheimer's disease early phenotypes. <i>Molecular Neurodegeneration</i> , 2014, 9, 60.	10.8	76
44	Function and Dysfunction of the Presenilins. <i>American Journal of Human Genetics</i> , 1999, 65, 7-12.	6.2	73
45	Presenilin Attenuates Receptor-Mediated Signaling and Synaptic Function. <i>Journal of Neuroscience</i> , 2005, 25, 1540-1549.	3.6	72
46	Ectodomain Phosphorylation of β -Amyloid Precursor Protein at Two Distinct Cellular Locations. <i>Journal of Biological Chemistry</i> , 1997, 272, 1896-1903.	3.4	69
47	Post-translational Processing and Turnover Kinetics of Presynaptically Targeted Amyloid Precursor Superfamily Proteins in the Central Nervous System. <i>Journal of Biological Chemistry</i> , 1998, 273, 11100-11106.	3.4	69
48	Evidence That Intramolecular Associations between Presenilin Domains Are Obligatory for Endoproteolytic Processing. <i>Journal of Biological Chemistry</i> , 1999, 274, 13818-13823.	3.4	69
49	Dual roles of the transmembrane protein p23/TMP21 in the modulation of amyloid precursor protein metabolism. <i>Molecular Neurodegeneration</i> , 2007, 2, 4.	10.8	68
50	A Role for Presenilin 1 in Regulating the Delivery of Amyloid Precursor Protein to the Cell Surface. <i>Neurobiology of Disease</i> , 2002, 11, 64-82.	4.4	65
51	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.	6.4	65
52	Biogenesis of β -secretase early in the secretory pathway. <i>Journal of Cell Biology</i> , 2007, 179, 951-963.	5.2	62
53	Stanniocalcin 2 Is a Negative Modulator of Store-Operated Calcium Entry. <i>Molecular and Cellular Biology</i> , 2011, 31, 3710-3722.	2.3	62
54	The Nonconserved Hydrophilic Loop Domain of Presenilin (PS) Is Not Required for PS Endoproteolysis or Enhanced $A\beta$ Production Mediated by Familial Early Onset Alzheimer's Disease-linked PS Variants. <i>Journal of Biological Chemistry</i> , 2000, 275, 17136-17142.	3.4	61

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55	S-Palmitoylation of β -Secretase Subunits Nicastrin and APH-1. <i>Journal of Biological Chemistry</i> , 2009, 284, 1373-1384.	3.4	61
56	Neuronal BIN1 Regulates Presynaptic Neurotransmitter Release and Memory Consolidation. <i>Cell Reports</i> , 2020, 30, 3520-3535.e7.	6.4	59
57	The role of presenilins in Alzheimer's disease. <i>Journal of Clinical Investigation</i> , 1999, 104, 1321-1327.	8.2	59
58	Identification of the role of presenilins beyond Alzheimer's disease. <i>Pharmacological Research</i> , 2004, 50, 411-418.	7.1	58
59	Subcellular Localization of Presenilins: Association with a Unique Membrane Pool in Cultured Cells. <i>Neurobiology of Disease</i> , 2000, 7, 99-117.	4.4	54
60	Proteolytic Processing of Familial British Dementia-associated BRI Variants. <i>Journal of Biological Chemistry</i> , 2002, 277, 1872-1877.	3.4	53
61	Lack of BACE1 S-palmitoylation reduces amyloid burden and mitigates memory deficits in transgenic mouse models of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9665-E9674.	7.1	51
62	Rheb GTPase Regulates β -Secretase Levels and Amyloid β Generation. <i>Journal of Biological Chemistry</i> , 2014, 289, 5799-5808.	3.4	49
63	Evidence That CD147 Modulation of β -Amyloid ($A\beta$) Levels Is Mediated by Extracellular Degradation of Secreted $A\beta$. <i>Journal of Biological Chemistry</i> , 2008, 283, 19489-19498.	3.4	46
64	Presenilins and β -Secretase Inhibitors Affect Intracellular Trafficking and Cell Surface Localization of the β -Secretase Complex Components. <i>Journal of Biological Chemistry</i> , 2004, 279, 40560-40566.	3.4	42
65	Novel β -Protein Signaling Associated with Membrane-Tethered Amyloid Precursor Protein Intracellular Domain. <i>Journal of Neuroscience</i> , 2012, 32, 1714-1729.	3.6	42
66	Insulin-Like Growth Factor-II/Cation-Independent Mannose 6-Phosphate Receptor in Neurodegenerative Diseases. <i>Molecular Neurobiology</i> , 2017, 54, 2636-2658.	4.0	41
67	Immunohistochemical and in situ analysis of amyloid precursor-like protein-1 and amyloid precursor-like protein-2 expression in Alzheimer disease and aged control brains. <i>Brain Research</i> , 1998, 804, 45-51.	2.2	39
68	Preclinical validation of a potent β -secretase modulator for Alzheimer's disease prevention. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	39
69	Reduced Alzheimer's Disease β -Amyloid Deposition in Transgenic Mice Expressing β -Palmitoylation-Deficient APH1aL and Nicastrin. <i>Journal of Neuroscience</i> , 2010, 30, 16160-16169.	3.6	37
70	Ca ²⁺ Influx through Store-operated Ca ²⁺ Channels Reduces Alzheimer Disease β -Amyloid Peptide Secretion. <i>Journal of Biological Chemistry</i> , 2013, 288, 26955-26966.	3.4	35
71	Reduction of the expression of the late-onset Alzheimer's disease (AD) risk-factor BIN1 does not affect amyloid pathology in an AD mouse model. <i>Journal of Biological Chemistry</i> , 2019, 294, 4477-4487.	3.4	33
72	β -Secretase Is a Functional Component of Phagosomes. <i>Journal of Biological Chemistry</i> , 2005, 280, 36310-36317.	3.4	32

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73	Processing of presenilin 1 in brains of patients with Alzheimer's disease and controls. <i>NeuroReport</i> , 1997, 8, 1717-1721.	1.2	31
74	Amyloid Precursor-like Protein 2 Promotes Cell Migration toward Fibronectin and Collagen IV. <i>Journal of Biological Chemistry</i> , 1999, 274, 27249-27256.	3.4	31
75	Loss of Cleavage at Î²-Site Contributes to Apparent Increase in Î²-Amyloid Peptide (AÎ²) Secretion by Î²-Secretase (BACE1)-Glycosylphosphatidylinositol (GPI) Processing of Amyloid Precursor Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 26166-26177.	3.4	30
76	Mutation Analysis of the Presenilin 1 N-terminal Domain Reveals a Broad Spectrum of Î³-Secretase Activity toward Amyloid Precursor Protein and Other Substrates. <i>Journal of Biological Chemistry</i> , 2010, 285, 38042-38052.	3.4	28
77	Localization and regional distribution of p23/TMP21 in the brain. <i>Neurobiology of Disease</i> , 2008, 32, 37-49.	4.4	27
78	Presenilins and Alzheimer disease: the calcium conspiracy. <i>Nature Neuroscience</i> , 2006, 9, 1354-1355.	14.8	26
79	BIN1 is a key regulator of proinflammatory and neurodegeneration-related activation in microglia. <i>Molecular Neurodegeneration</i> , 2022, 17, 33.	10.8	26
80	Modeling Presenilin-Dependent Familial Alzheimer's Disease: Emphasis on Presenilin Substrate-Mediated Signaling and Synaptic Function. <i>International Journal of Alzheimer's Disease</i> , 2010, 2010, 1-11.	2.0	25
81	Aberrant accrual of BIN1 near Alzheimer's disease amyloid deposits in transgenic models. <i>Brain Pathology</i> , 2019, 29, 485-501.	4.1	25
82	APP-Mediated Signaling Prevents Memory Decline in Alzheimer's Disease Mouse Model. <i>Cell Reports</i> , 2019, 27, 1345-1355.e6.	6.4	20
83	Transgenic neuronal overexpression reveals that stringently regulated p23 expression is critical for coordinated movement in mice. <i>Molecular Neurodegeneration</i> , 2011, 6, 87.	10.8	19
84	Familial British Dementia: Expression and Metabolism of BRI. <i>Annals of the New York Academy of Sciences</i> , 2000, 920, 93-99.	3.8	18
85	Metabolism of Presenilins. <i>Journal of Molecular Neuroscience</i> , 2001, 17, 183-192.	2.3	13
86	BIN1 localization is distinct from Tau tangles in Alzheimer's disease. <i>Matters</i> , 2017, 2017, .	1.0	13
87	Significance of transcytosis in Alzheimer's disease: BACE1 takes the scenic route to axons. <i>BioEssays</i> , 2015, 37, 888-898.	2.5	12
88	Sorting the Role of SORLA in Alzheimer's Disease. <i>Science Translational Medicine</i> , 2014, 6, 223fs8.	12.4	10
89	Steady-state increase of cAMP response element binding protein, Rac, and PAK signaling in presenilin-deficient neurons. <i>Journal of Neurochemistry</i> , 2008, 104, 1637-1648.	3.9	9
90	Cinnabarinic Acid-Induced Stanniocalcin 2 Confers Cytoprotection against Alcohol-Induced Liver Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2022, 381, 1-11.	2.5	8

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91	Enhanced cleavage of APP by co-expressed Bace1 alters the distribution of APP and its fragments in neuronal and non-neuronal cells. <i>Molecular Neurobiology</i> , 2022, 59, 3073-3090.	4.0	8
92	Matrix metalloproteinase 13, a new target for therapy in Alzheimer's disease. <i>Genes and Diseases</i> , 2019, 6, 1-2.	3.4	7
93	Familial Amyotrophic Lateral Sclerosis and Alzheimer's Disease. <i>Advances in Experimental Medicine and Biology</i> , 1998, , 145-159.	1.6	7
94	Alterations in Gene Expression in Mutant Amyloid Precursor Protein Transgenic Mice Lacking Niemann-Pick Type C1 Protein. <i>PLoS ONE</i> , 2013, 8, e54605.	2.5	6
95	Overexpression of the IGF-II/M6P Receptor in Mouse Fibroblast Cell Lines Differentially Alters Expression Profiles of Genes Involved in Alzheimer's Disease-Related Pathology. <i>PLoS ONE</i> , 2014, 9, e98057.	2.5	5
96	Differential Regulation of Amyloid Precursor Protein/Presenilin 1 Interaction during Ab40/42 Production Detected Using Fusion Constructs. <i>PLoS ONE</i> , 2012, 7, e48551.	2.5	4
97	Physiologically generated presenilin 1 lacking exon 8 fails to rescue brain PS1 ^{Δ8} phenotype and forms complexes with wildtype PS1 and nicastrin. <i>Scientific Reports</i> , 2015, 5, 17042.	3.3	4
98	Thematic Minireview Series on the Molecular Basis of Alzheimer Disease. <i>Journal of Biological Chemistry</i> , 2008, 283, 29613-29614.	3.4	3
99	APP Biology, Processing and Function. , 0, , 17-34.		2
100	Investigation of Unfolded-Protein Response in Cells Expressing Familial Alzheimer's Disease-Linked Presenilin Variants. , 2003, 232, 203-216.		1
101	Stringently regulated p23 expression is critical for coordinated movement in mice: implications for Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2012, 7, L2.	10.8	1
102	Determining the Transmembrane Topology of the Presenilins. , 2000, 32, 283-296.		0
103	The Unfolded Protein Response-mediated Upregulation of BiP and CHOP Is not Affected by Presenilin Expression. , 0, , 559-567.		0
104	Lessons from presenilin domain analysis: endoproteolytic processing and enhanced Aβ ⁴² production mediated by FAD-linked variants. , 2001, , 167-175.		0