Takaomi C Saido

List of Publications by Year
in descending order

382	32,668	3721 89	5806 161
papers	citations	h-index	g-index

427	427	427	28595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synapse Loss and Microglial Activation Precede Tangles in a P301S Tauopathy Mouse Model. Neuron, 2007, 53, 337-351.	3.8	1,696
2	Age-Dependent Changes in Brain, CSF, and Plasma Amyloid Î² Protein in the Tg2576 Transgenic Mouse Model of Alzheimer's Disease. Journal of Neuroscience, 2001, 21, 372-381.	1.7	961
3	Metabolic Regulation of Brain Abeta by Neprilysin. Science, 2001, 292, 1550-1552.	6.0	906
4	Single App knock-in mouse models of Alzheimer's disease. Nature Neuroscience, 2014, 17, 661-663.	7.1	846
5	Identification of the major AÎ²1â€“42-degrading catabolic pathway in brain parenchyma: Suppression leads to biochemical and pathological deposition. Nature Medicine, 2000, 6, 143-150.	15.2	817
6	Imaging of Tau Pathology in a Tauopathy Mouse Model and in Alzheimer Patients Compared to Normal Controls. Neuron, 2013, 79, 1094-1108.	3.8	673
7	Dominant and differential deposition of distinct Î²-amyloid peptide species, AÎ²N3(pE), in senile plaques. Neuron, 1995, 14, 457-466.	3.8	554
8	<scp>APP</scp> mouse models for Alzheimer's disease preclinical studies. EMBO Journal, 2017, 36, 2473-2487.	3.5	530
9	The Major Risk Factors for Alzheimerâ€™s Disease: Age, Sex, and Genes Modulate the Microglia Response to AÎ² Plaques. Cell Reports, 2019, 27, 1293-1306.e6.	2.9	527
10	ScaleS: an optical clearing palette for biological imaging. Nature Neuroscience, 2015, 18, 1518-1529.	7.1	511
11	Proteolysis of Fodrin (Non-erythroid Spectrin) during Apoptosis. Journal of Biological Chemistry, 1995, 270, 6425-6428.	1.6	491
12	Spatial Transcriptomics and In Situ Sequencing to Study Alzheimerâ€™s Disease. Cell, 2020, 182, 976-991.e19.	13.5	491
13	The E280A presenilin 1 Alzheimer mutation produces increased AÎ²42 deposition and severe cerebellar pathology. Nature Medicine, 1996, 2, 1146-1150.	15.2	489
14	Amyloid Î² oligomers constrict human capillaries in Alzheimerâ€™s disease via signaling to pericytes. Science, 2019, 365, .	6.0	436
15	AÎ² Secretion and Plaque Formation Depend on Autophagy. Cell Reports, 2013, 5, 61-69.	2.9	386
16	Reply to: 'Clearance of amyloid Î²-peptide from brain: transport or metabolism?'. Nature Medicine, 2000, 6, 718-719.	15.2	379
17	Longer Forms of Amyloid Â Protein: Implications for the Mechanism of Intramembrane Cleavage by Â-Secretase. Journal of Neuroscience, 2005, 25, 436-445.	1.7	365
18	19F and 1H MRI detection of amyloid Î² plaques in vivo. Nature Neuroscience, 2005, 8, 527-533.	7.1	341

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19	Somatostatin regulates brain amyloid Î² peptide AÎ²42 through modulation of proteolytic degradation. Nature Medicine, 2005, 11, 434-439.	15.2	335
20	Proteolytic Degradation of Amyloid Â-Protein. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a006379-a006379.	2.9	293
21	Neprilysin Degrades Both Amyloid Î² Peptides 1â€“40 and 1â€“42 Most Rapidly and Efficiently among Thiorphan- and Phosphoramidon-sensitive Endopeptidases. Journal of Biological Chemistry, 2001, 276, 21895-21901.	1.6	282
22	Longitudinal, Quantitative Assessment of Amyloid, Neuroinflammation, and Anti-Amyloid Treatment in a Living Mouse Model of Alzheimer's Disease Enabled by Positron Emission Tomography. Journal of Neuroscience, 2007, 27, 10957-10968.	1.7	275
23	Amino- and carboxyl-terminal heterogeneity of Î²-amyloid peptides deposited in human brain. Neuroscience Letters, 1996, 215, 173-176.	1.0	260
24	Activation of Calpain I Converts Excitotoxic Neuron Death into a Caspase-independent Cell Death. Journal of Biological Chemistry, 2000, 275, 17064-17071.	1.6	245
25	Potent amyloidogenicity and pathogenicity of AÎ²43. Nature Neuroscience, 2011, 14, 1023-1032.	7.1	245
26	Females exhibit more extensive amyloid, but not tau, pathology in an Alzheimer transgenic model. Brain Research, 2008, 1216, 92-103.	1.1	239
27	Intraneuronal AÎ²42 accumulation in Down syndrome brain. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2002, 9, 88-102.	1.4	237
28	Neuropathology and biochemistry of AÎ² and its aggregates in Alzheimerâ€™s disease. Acta Neuropathologica, 2015, 129, 167-182.	3.9	224
29	Age-Related Amyloid Î² Deposition in Transgenic Mice Overexpressing Both Alzheimer Mutant Presenilin 1 and Amyloid Î² Precursor Protein Swedish Mutant Is Not Associated with Global Neuronal Loss. American Journal of Pathology, 2000, 157, 331-339.	1.9	222
30	Presynaptic Localization of Neprilysin Contributes to Efficient Clearance of Amyloid-Â Peptide in Mouse Brain. Journal of Neuroscience, 2004, 24, 991-998.	1.7	222
31	Calpain research for drug discovery: challenges and potential. Nature Reviews Drug Discovery, 2016, 15, 854-876.	21.5	216
32	Alzheimerâ€™s-Causing Mutations Shift AÎ² Length by Destabilizing Î³-Secretase-AÎ²n Interactions. Cell, 2017, 170, 443-456.e14.	13.5	199
33	Metabolism of amyloid-Î² peptide and Alzheimer's disease. , 2005, 108, 129-148.		189
34	The potential role of amyloid Â in the pathogenesis of age-related macular degeneration. Journal of Clinical Investigation, 2005, 115, 2793-2800.	3.9	186
35	Amyloid Î² Protein Starting Pyroglutamate at Position 3 Is a Major Component of the Amyloid Deposits in the Alzheimer's Disease Brain. Biochemical and Biophysical Research Communications, 2000, 276, 422-427.	1.0	183
36	Region-specific reduction of A?-degrading endopeptidase, neprilysin, in mouse hippocampus upon aging. Journal of Neuroscience Research, 2002, 70, 493-500.	1.3	183

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37	New era of calpain research. FEBS Letters, 1994, 343, 1-5.	1.3	175
38	Î²-Amyloid Is Different in Normal Aging and in Alzheimer Disease. Journal of Biological Chemistry, 2005, 280, 34186-34192.	1.6	175
39	Berberine alters the processing of Alzheimerâ€™s amyloid precursor protein to decrease AÎ² secretion. Biochemical and Biophysical Research Communications, 2007, 352, 498-502.	1.0	172
40	Microglial gene signature reveals loss of homeostatic microglia associated with neurodegeneration of Alzheimerâ€™s disease. Acta Neuropathologica Communications, 2021, 9, 1.	2.4	172
41	Calpain Mediates Excitotoxic DNA Fragmentation via Mitochondrial Pathways in Adult Brains. Journal of Biological Chemistry, 2005, 280, 16175-16184.	1.6	168
42	Transient Brain Ischaemia Provokes Ca2+, PIP2and Calpain Responses Prior to Delayed Neuronal Death in Monkeys. European Journal of Neuroscience, 1996, 8, 1932-1944.	1.2	165
43	Reperfusion of Rat Heart After Brief Ischemia Induces Proteolysis of Calspectin (Nonerythroid) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.6	159
44	Neuronal Store-Operated Calcium Entry and Mushroom Spine Loss in Amyloid Precursor Protein Knock-In Mouse Model of Alzheimer's Disease. Journal of Neuroscience, 2015, 35, 13275-13286.	1.7	158
45	Cognitive deficits in single App knock-in mouse models. Neurobiology of Learning and Memory, 2016, 135, 73-82.	1.0	158
46	Anti-AÎ² Drug Screening Platform Using Human iPS Cell-Derived Neurons for the Treatment of Alzheimer's Disease. PLoS ONE, 2011, 6, e25788.	1.1	156
47	Dual roles for autophagy: Degradation and secretion of Alzheimer's disease AÎ² peptide. BioEssays, 2014, 36, 570-578.	1.2	156
48	Neprilysin-sensitive Synapse-associated Amyloid-Î² Peptide Oligomers Impair Neuronal Plasticity and Cognitive Function*. Journal of Biological Chemistry, 2006, 281, 17941-17951.	1.6	153
49	Distinct Mechanistic Roles of Calpain and Caspase Activation in Neurodegeneration as Revealed in Mice Overexpressing Their Specific Inhibitors. Journal of Biological Chemistry, 2005, 280, 15229-15237.	1.6	152
50	Calpain Cleavage of the Cytoplasmic Domain of the Integrin Î²2 Subunit. Journal of Biological Chemistry, 1995, 270, 26146-26151.	1.6	150
51	An aberrant sugar modification of <scp>BACE</scp>1 blocks its lysosomal targeting in <scp>A</scp>lzheimer's disease. EMBO Molecular Medicine, 2015, 7, 175-189.	3.3	147
52	Functional Defects of a Muscle-specific Calpain, p94, Caused by Mutations Associated with Limb-Girdle Muscular Dystrophy Type 2A. Journal of Biological Chemistry, 1998, 273, 17073-17078.	1.6	142
53	AÎ²-degrading endopeptidase, neprilysin, in mouse brain: synaptic and axonal localization inversely correlating with AÎ² pathology. Neuroscience Research, 2002, 43, 39-56.	1.0	141
54	Dutch, Flemish, Italian, and Arctic mutations of APP and resistance of AÎ² to physiologically relevant proteolytic degradation. Lancet, The, 2003, 361, 1957-1958.	6.3	140

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55	The novel Î²-secretase inhibitor KMI-429 reduces amyloid Î² peptide production in amyloid precursor protein transgenic and wild-type mice. Journal of Neurochemistry, 2006, 96, 533-540.	2.1	140
56	Autolytic Transition of Î¼Calpain upon Activation as Resolved by Antibodies Distinguishing between the Pre- and Post-Autolysis Forms1. Journal of Biochemistry, 1992, 111, 81-86.	0.9	139
57	A role for calpain-dependent cleavage of TDP-43 in amyotrophic lateral sclerosis pathology. Nature Communications, 2012, 3, 1307.	5.8	139
58	Comparative profiling of cortical gene expression in Alzheimerâ€™s disease patients and mouse models demonstrates a link between amyloidosis and neuroinflammation. Scientific Reports, 2017, 7, 17762.	1.6	138
59	Versatile whole-organ/body staining and imaging based on electrolyte-gel properties of biological tissues. Nature Communications, 2020, 11, 1982.	5.8	134
60	Oxidized neprilysin in aging and Alzheimerâ€™s disease brains. Biochemical and Biophysical Research Communications, 2003, 310, 236-241.	1.0	132
61	Structural and functional diversities of a family of signal transducing protein kinases, protein kinase C family; two distinct classes of PKC, conventional cPKC and novel nPKC. Advances in Enzyme Regulation, 1991, 31, 287-303.	2.9	128
62	Truncated Carboxyl-Terminal Fragments of Î²-Amyloid Precursor Protein Are Processed to Amyloid Î²-Proteins 40 and 42â€. Biochemistry, 2004, 43, 13532-13540.	1.2	127
63	Cleavage of Bax is mediated by caspase-dependent or -independent calpain activation in dopaminergic neuronal cells: protective role of Bcl-2. Journal of Neurochemistry, 2001, 77, 1531-1541.	2.1	126
64	Altered CpG methylation in sporadic Alzheimer's disease is associated with APP and MAPT dysregulation. Human Molecular Genetics, 2014, 23, 648-656.	1.4	126
65	In VivoPositron Emission Tomographic Imaging of Glial Responses to Amyloid-Î² and Tau Pathologies in Mouse Models of Alzheimer's Disease and Related Disorders. Journal of Neuroscience, 2011, 31, 4720-4730.	1.7	123
66	Transmission of amyloid-Î² protein pathology from cadaveric pituitary growth hormone. Nature, 2018, 564, 415-419.	13.7	122
67	Sustained calpain activation associated with lysosomal rupture executes necrosis of the postischemic CA1 neurons in primates. Hippocampus, 2003, 13, 791-800.	0.9	119
68	The involvement of calpain-independent proteolysis of the tumor suppressor NF2 (merlin) in schwannomas and meningiomas. Nature Medicine, 1998, 4, 915-922.	15.2	116
69	Uncaria rhynchophylla, a Chinese medicinal herb, has potent antiaggregation effects on Alzheimer's Î²-amyloid proteins. Journal of Neuroscience Research, 2006, 84, 427-433.	1.3	114
70	Humanization of the entire murine Mapt gene provides a murine model of pathological human tau propagation. Journal of Biological Chemistry, 2019, 294, 12754-12765.	1.6	114
71	SIRT3 mediates hippocampal synaptic adaptations to intermittent fasting and ameliorates deficits in APP mutant mice. Nature Communications, 2019, 10, 1886.	5.8	114
72	HMGB1, a pathogenic molecule that induces neurite degeneration via TLR4-MARCKS, is a potential therapeutic target for Alzheimerâ€™s disease. Scientific Reports, 2016, 6, 31895.	1.6	111

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73	Modulation of Cellular Signals by Calpain. Annals of the New York Academy of Sciences, 1992, 674, 218-227.	1.8	110
74	Heterogeneity of water-soluble amyloid Î²-peptide in Alzheimer's disease and Down's syndrome brains. FEBS Letters, 1997, 409, 411-416.	1.3	110
75	Diffuse plaques associated with astroglial amyloid Î² protein, possibly showing a disappearing stage of senile plaques. Acta Neuropathologica, 1998, 95, 217-222.	3.9	109
76	Calpain Mediates Integrin-induced Signaling at a Point Upstream of Rho Family Members. Journal of Biological Chemistry, 1999, 274, 21265-21275.	1.6	107
77	Membrane-anchored metalloprotease MDC9 has an Î±-secretase activity responsible for processing the amyloid precursor protein. Biochemical Journal, 1999, 343, 371.	1.7	107
78	Age-dependent axonal degeneration in an Alzheimer mouse model. Neurobiology of Aging, 2007, 28, 1689-1699.	1.5	107
79	Critical review: involvement of endoplasmic reticulum stress in the aetiology of Alzheimer's disease. Open Biology, 2018, 8, 180024.	1.5	106
80	Proteolysis of spectrin by calpain accompanies theta-burst stimulation in cultured hippocampal slices. Molecular Brain Research, 1995, 32, 25-35.	2.5	105
81	C Terminus of Presenilin Is Required for Overproduction of Amyloidogenic AÎ²42 through Stabilization and Endoproteolysis of Presenilin. Journal of Neuroscience, 1999, 19, 10627-10634.	1.7	104
82	Structure and properties of a ubiquitously expressed protein kinase C, nPKCdelta. FEBS Journal, 1991, 202, 931-940.	0.2	103
83	Calpastatin Is Up-regulated in Response to Hypoxia and Is a Suicide Substrate to Calpain after Neonatal Cerebral Hypoxia-Ischemia. Journal of Biological Chemistry, 1999, 274, 14046-14052.	1.6	103
84	Pyroglutamate-3 Amyloid-Î² Deposition in the Brains of Humans, Non-Human Primates, Canines, and Alzheimer Diseaseâ€“Like Transgenic Mouse Models. American Journal of Pathology, 2013, 183, 369-381.	1.9	102
85	Evidence That Î²3 Integrin-Induced Rac Activation Involves the Calpain-Dependent Formation of Integrin Clusters That Are Distinct from the Focal Complexes and Focal Adhesions That Form as Rac and Rhoa Become Active. Journal of Cell Biology, 2000, 151, 685-696.	2.3	100
86	Amyloidogenic Processing of Amyloid Precursor Protein: Evidence of a Pivotal Role of Glutaminyl Cyclase in Generation of Pyroglutamate-Modified Amyloid-Î². Biochemistry, 2008, 47, 7405-7413.	1.2	100
87	Characterization of Î±2,6-Sialyltransferase Cleavage by Alzheimer's Î²-Secretase (BACE1). Journal of Biological Chemistry, 2003, 278, 14865-14871.	1.6	99
88	Calpain Activation in Alzheimer's Model Mice Is an Artifact of APP and Presenilin Overexpression. Journal of Neuroscience, 2016, 36, 9933-9936.	1.7	98
89	Nrf2 Suppresses Oxidative Stress and Inflammation in App Knock-In Alzheimerâ€™s Disease Model Mice. Molecular and Cellular Biology, 2020, 40, .	1.1	98
90	A traditional medicinal herb Paeonia suffruticosa and its active constituent 1,2,3,4,6â€pentaâ€Oâ€galloylâ€Î²â€<scp>d</scp>â€glucopyranose have potent antiâ€aggregation effects on Alzheimerâ€™s amyloid Î² proteins in vitro and in vivo. Journal of Neurochemistry, 2009, 109, 1648-1657.	2.1	97

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91	Overexpression of the calpain-specific inhibitor calpastatin reduces human alpha-Synuclein processing, aggregation and synaptic impairment in [A30P]Î±Syn transgenic mice. Human Molecular Genetics, 2014, 23, 3975-3989.	1.4	97
92	Plaque associated microglia hyper-secrete extracellular vesicles and accelerate tau propagation in a humanized APP mouse model. Molecular Neurodegeneration, 2021, 16, 18.	4.4	97
93	Occurrence of the diffuse amyloid ?-protein (A?) deposits with numerous A?-containing glial cells in the cerebral cortex of patients with Alzheimer's disease. , 1999, 25, 324-331.		96
94	The crucial role of caspase-9 in the disease progression of a transgenic ALS mouse model. EMBO Journal, 2003, 22, 6665-6674.	3.5	96
95	The Tottori (D7N) and English (H6R) Familial Alzheimer Disease Mutations Accelerate AÎ² Fibril Formation without Increasing Protofibril Formation. Journal of Biological Chemistry, 2007, 282, 4916-4923.	1.6	96
96	Metabolism of amyloid Î² peptide and pathogenesis of Alzheimer's disease. Neuroscience Research, 2006, 54, 235-253.	1.0	93
97	Brain Endothelial Cells Produce Amyloid Î² from Amyloid Precursor Protein 770 and Preferentially Secrete the O-Glycosylated Form. Journal of Biological Chemistry, 2010, 285, 40097-40103.	1.6	93
98	N-terminal Heterogeneity of Parenchymal and Cerebrovascular AÎ² Deposits. Journal of Neuropathology and Experimental Neurology, 1998, 57, 76-94.	0.9	92
99	Depletion of Vitamin E Increases Amyloid Î² Accumulation by Decreasing Its Clearances from Brain and Blood in a Mouse Model of Alzheimer Disease. Journal of Biological Chemistry, 2009, 284, 33400-33408.	1.6	91
100	Aberrant Excitatoryâ€“Inhibitory Synaptic Mechanisms in Entorhinal Cortex Microcircuits During the Pathogenesis of Alzheimerâ€™s Disease. Cerebral Cortex, 2019, 29, 1834-1850.	1.6	90
101	Interleukinâ€1Î² upâ€regulates TACE to enhance Î±â€cleavage of APP in neurons: resulting decrease in AÎ² production. Journal of Neurochemistry, 2008, 104, 1387-1393.	2.1	89
102	Cerebrospinal fluid neprilysin is reduced in prodromal Alzheimer's disease. Annals of Neurology, 2005, 57, 832-842.	2.8	86
103	BACE1 interacts with lipid raft proteins. Journal of Neuroscience Research, 2006, 84, 912-917.	1.3	86
104	Familial Alzheimerâ€™s Disease Mutations in Presenilin Generate Amyloidogenic AÎ² Peptide Seeds. Neuron, 2016, 90, 410-416.	3.8	86
105	Î²-amyloid redirects norepinephrine signaling to activate the pathogenic GSK3Î²/tau cascade. Science Translational Medicine, 2020, 12, .	5.8	86
106	Biochemical Identification of the Neutral Endopeptidase Family Member Responsible for the Catabolism of Amyloid Â Peptide in the Brain. Journal of Biochemistry, 2000, 128, 897-902.	0.9	85
107	Purification and characterization of protein kinase C .epsilon. from rabbit brain. Biochemistry, 1992, 31, 482-490.	1.2	84
108	Matrix metalloproteinase (MMP) system in brain: identification and characterization of brain-specific MMP highly expressed in cerebellum. European Journal of Neuroscience, 2001, 13, 935-948.	1.2	84

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109	Cytotoxic Fragment of Amyloid Precursor Protein Accumulates in Hippocampus after Global Forebrain Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 1219-1223.	2.4	83
110	Global brain delivery of neprilysin gene by intravascular administration of AAV vector in mice. Scientific Reports, 2013, 3, 1472.	1.6	83
111	Signal Peptide Peptidase:Â Biochemical Properties and Modulation by Nonsteroidal Antiinflammatory Drugsâ€. Biochemistry, 2006, 45, 8649-8656.	1.2	82
112	Mechanistic involvement of the calpainâ€calpastatin system in Alzheimer neuropathology. FASEB Journal, 2012, 26, 1204-1217.	0.2	82
113	Disrupted Place Cell Remapping and Impaired Grid Cells in a Knockin Model of Alzheimer's Disease. Neuron, 2020, 107, 1095-1112.e6.	3.8	82
114	Brain Trauma in Aged Transgenic Mice Induces Regression of Established AÎ² Deposits. Experimental Neurology, 2000, 163, 244-252.	2.0	81
115	Capillary cerebral amyloid angiopathy identifies a distinct APOE Îµ4-associated subtype of sporadic Alzheimerâ€™s disease. Acta Neuropathologica, 2010, 120, 169-183.	3.9	81
116	Involvement of Calpain in Integrin-Mediated Signal Transduction. Archives of Biochemistry and Biophysics, 1996, 328, 129-134.	1.4	80
117	Fibrillar AÎ² triggers microglial proteome alterations and dysfunction in Alzheimer mouse models. ELife, 2020, 9, .	2.8	80
118	The Role of the Calpain-Calpastatin System in Thyrotropin-releasing Hormone-induced Selective Down-regulation of a Protein Kinase C Isozyme, nPKCÎµ, in Rat Pituitary GH4C1 Cells. Journal of Biological Chemistry, 1995, 270, 25115-25120.	1.6	79
119	Altered Function of Factor I Caused by Amyloid Î²: Implication for Pathogenesis of Age-Related Macular Degeneration from Drusen. Journal of Immunology, 2008, 181, 712-720.	0.4	79
120	Neuroinflammation in mouse models of Alzheimer's disease. Clinical and Experimental Neuroimmunology, 2018, 9, 211-218.	0.5	77
121	Nâ€terminal pyroglutamate formation of AÎ²38 and AÎ²40 enforces oligomer formation and potency to disrupt hippocampal longâ€term potentiation. Journal of Neurochemistry, 2012, 121, 774-784.	2.1	76
122	Fluoro-substituted and 13C-labeled styrylbenzene derivatives for detecting brain amyloid plaques. European Journal of Medicinal Chemistry, 2004, 39, 573-578.	2.6	75
123	Loss of M5 muscarinic acetylcholine receptors leads to cerebrovascular and neuronal abnormalities and cognitive deficits in mice. Neurobiology of Disease, 2006, 24, 334-344.	2.1	75
124	Istradefylline reduces memory deficits in aging mice with amyloid pathology. Neurobiology of Disease, 2018, 110, 29-36.	2.1	75
125	Molecular Dissection of Domains in Mutant Presenilin 2 That Mediate Overproduction of Amyloidogenic Forms of Amyloid Î² Peptides. Journal of Biological Chemistry, 1998, 273, 21153-21160.	1.6	74
126	Inhibition of glutaminyl cyclase alters pyroglutamate formation in mammalian cells. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 1618-1625.	1.1	73

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127	An immunoaffinity-based method for isolating ultrapure adult astrocytes based on ATP1B2 targeting by the ACSA-2 antibody. Journal of Biological Chemistry, 2017, 292, 8874-8891.	1.6	73
128	Neuron-specific methylome analysis reveals epigenetic regulation and tau-related dysfunction of BRCA1 in Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9645-E9654.	3.3	72
129	Quantification of Modified Amyloid Î² Peptides in Alzheimer Disease and Down Syndrome Brains. Journal of Neuropathology and Experimental Neurology, 1998, 57, 1089-1095.	0.9	71
130	KMI-358 and KMI-370, highly potent and small-sized BACE1 inhibitors containing phenylnorstatine. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1527-1531.	1.0	70
131	Calpain-mediated ataxin-3 cleavage in the molecular pathogenesis of spinocerebellar ataxia type 3 (SCA3). Human Molecular Genetics, 2013, 22, 508-518.	1.4	70
132	New Mouse Model of Alzheimerâ€™s. ACS Chemical Neuroscience, 2014, 5, 499-502.	1.7	70
133	Autophagy-Related Protein 7 Deficiency in Amyloid Î² (AÎ²) Precursor Protein Transgenic Mice Decreases AÎ² in the Multivesicular Bodies and Induces AÎ² Accumulation in the Golgi. American Journal of Pathology, 2015, 185, 305-313.	1.9	70
134	Tetraspanin 6: a pivotal protein of the multiple vesicular body determining exosome release and lysosomal degradation of amyloid precursor protein fragments. Molecular Neurodegeneration, 2017, 12, 25.	4.4	70
135	A Novel Phosphatidylserine-binding Peptide Motif Defined by an Anti-idiotypic Monoclonal Antibody. Journal of Biological Chemistry, 1995, 270, 29075-29078.	1.6	69
136	UCN-01, an anti-tumor drug, is a selective inhibitor of the conventional PKC subfamily. FEBS Letters, 1995, 359, 259-261.	1.3	69
137	Sialylation enhances the secretion of neurotoxic amyloid-beta peptides. Journal of Neurochemistry, 2006, 96, 924-933.	2.1	69
138	Efhc1 deficiency causes spontaneous myoclonus and increased seizure susceptibility. Human Molecular Genetics, 2009, 18, 1099-1109.	1.4	68
139	Understanding molecular mechanisms of proteolysis in Alzheimer's disease: Progress toward therapeutic interventions. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1751, 60-67.	1.1	66
140	Specific Increase in Amyloid Î²-Protein 42 Secretion Ratio by Calpain Inhibition. Biochemistry, 1997, 36, 8377-8383.	1.2	65
141	Proteolytic Activation of Protein Kinase C Î´ and Îµ by Caspase-3 in U937 Cells During Chemotherapeutic Agent-Induced Apoptosis. Cellular Signalling, 1999, 11, 831-838.	1.7	65
142	Suppression of Calpain-dependent Cleavage of the CDK5 Activator p35 to p25 by Site-specific Phosphorylation. Journal of Biological Chemistry, 2007, 282, 1687-1694.	1.6	65
143	Bisecting GlcNAc modification stabilizes BACE1 protein under oxidative stress conditions. Biochemical Journal, 2016, 473, 21-30.	1.7	65
144	Familial Alzheimer's Disease-Linked Mutations at Val717of Amyloid Precursor Protein Are Specific for the Increased Secretion of AÎ²42(43). Biochemical and Biophysical Research Communications, 1996, 227, 730-735.	1.0	64

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145	Three Distinct Phases of Fodrin Proteolysis Induced in Postischemic Hippocampus. Stroke, 1995, 26, 1901-1907.	1.0	64
146	Gene therapy in Alzheimerâ€™s disease â€“ potential for disease modification. Journal of Cellular and Molecular Medicine, 2010, 14, 741-757.	1.6	63
147	Subtle behavioral changes and increased prefrontal-hippocampal network synchronicity in APPNLâˆ’Gâˆ’F mice before prominent plaque deposition. Behavioural Brain Research, 2019, 364, 431-441.	1.2	63
148	Calpain inhibitor entrapped in liposome rescues ischemic neuronal damage. Brain Research, 1999, 819, 8-14.	1.1	62
149	YAP-dependent necrosis occurs in early stages of Alzheimerâ€™s disease and regulates mouse model pathology. Nature Communications, 2020, 11, 507.	5.8	62
150	The Behavior of Calpain-Generated N- and C-Terminal Fragments of Talin in Integrin-Mediated Signaling Pathways. Archives of Biochemistry and Biophysics, 1999, 371, 133-141.	1.4	61
151	Loss of GPR3 reduces the amyloid plaque burden and improves memory in Alzheimerâ€™s disease mouse models. Science Translational Medicine, 2015, 7, 309ra164.	5.8	61
152	Aminophospholipids are signal-transducing TREM2 ligands on apoptotic cells. Scientific Reports, 2019, 9, 7508.	1.6	61
153	Translational suppression of calpain I reduces NMDA-induced spectrin proteolysis and pathophysiology in cultured hippocampal slices. Brain Research, 1995, 694, 147-157.	1.1	59
154	Presenilin 1 Mutations Linked to Familial Alzheimer's Disease Increase the Intracellular Levels of Amyloid Î²â€Protein 1â€“42 and Its Nâ€Terminally Truncated Variant(s) Which Are Generated at Distinct Sites. Journal of Neurochemistry, 1998, 71, 1535-1543.	2.1	59
155	Critical role of calpain in axonal damageâ€induced retinal ganglion cell death. Journal of Neuroscience Research, 2012, 90, 802-815.	1.3	59
156	Near-Infrared Photoactivatable Oxygenation Catalysts of Amyloid Peptide. CheM, 2018, 4, 807-820.	5.8	59
157	Tau binding protein CAPON induces tau aggregation and neurodegeneration. Nature Communications, 2019, 10, 2394.	5.8	59
158	Protein kinase C isoforms in muscle cells and their regulation by phorbol ester and calpain. Biochimica Et Biophysica Acta - Molecular Cell Research, 1995, 1267, 45-54.	1.9	57
159	Distinct Substrate Specificities and Functional Roles for the 78- and 76-kDa Forms of Î¼-Calpain in Human Platelets. Journal of Biological Chemistry, 1997, 272, 24876-24884.	1.6	57
160	Metabolic stress response implicated in diabetic retinopathy: The role of calpain, and the therapeutic impact of calpain inhibitor. Neurobiology of Disease, 2012, 48, 556-567.	2.1	57
161	Molecular Cloning and Characterization of a Novel Form of Neuropeptide Gene as a Developmentally Regulated Molecule. Journal of Biological Chemistry, 1996, 271, 15615-15622.	1.6	55
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