

Sangram S Sisodia

List of Publications by Year in descending order

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68
papers

15,860
citations

61977

43
h-index

98792

67
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70
all docs

70
docs citations

70
times ranked

12929
citing authors

#	ARTICLE	IF	CITATIONS
1	Familial Alzheimer's Diseaseâ€“Linked Presenilin 1 Variants Elevate A β 42/1â€“40 Ratio In Vitro and In Vivo. <i>Neuron</i> , 1996, 17, 1005-1013.	8.1	1,471
2	APP Processing and Synaptic Function. <i>Neuron</i> , 2003, 37, 925-937.	8.1	1,423
3	Endoproteolysis of Presenilin 1 and Accumulation of Processed Derivatives In Vivo. <i>Neuron</i> , 1996, 17, 181-190.	8.1	1,054
4	Accelerated Amyloid Deposition in the Brains of Transgenic Mice Coexpressing Mutant Presenilin 1 and Amyloid Precursor Proteins. <i>Neuron</i> , 1997, 19, 939-945.	8.1	964
5	A mouse model for Down syndrome exhibits learning and behaviour deficits. <i>Nature Genetics</i> , 1995, 11, 177-184.	21.4	854
6	Trafficking and Proteolytic Processing of APP. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2012, 2, a006270-a006270.	6.2	847
7	Presenilin 1 is required for Notch 1 and Dll1 expression in the paraxial mesoderm. <i>Nature</i> , 1997, 387, 288-292.	27.8	730
8	β -amyloid precursor protein-deficient mice show reactive gliosis and decreased locomotor activity. <i>Cell</i> , 1995, 81, 525-531.	28.9	648
9	MUTANT GENES IN FAMILIAL ALZHEIMER'S DISEASE AND TRANSGENIC MODELS. <i>Annual Review of Neuroscience</i> , 1998, 21, 479-505.	10.7	572
10	β -Secretase, notch, A β and alzheimer's disease: Where do the presenilins fit in?. <i>Nature Reviews Neuroscience</i> , 2002, 3, 281-290.	10.2	494
11	Antibiotic-induced perturbations in gut microbial diversity influences neuro-inflammation and amyloidosis in a murine model of Alzheimerâ€™s disease. <i>Scientific Reports</i> , 2016, 6, 30028.	3.3	469
12	Deficient Neurogenesis in Forebrain-Specific Presenilin-1 Knockout Mice Is Associated with Reduced Clearance of Hippocampal Memory Traces. <i>Neuron</i> , 2001, 32, 911-926.	8.1	443
13	ALZHEIMER'S DISEASE: Genetic Studies and Transgenic Models. <i>Annual Review of Genetics</i> , 1998, 32, 461-493.	7.6	384
14	Isolation and characterization of APLP2 encoding a homologue of the Alzheimer's associated amyloid β protein precursor. <i>Nature Genetics</i> , 1993, 5, 95-100.	21.4	370
15	A vector for expressing foreign genes in the brains and hearts of transgenic mice. <i>Genetic Analysis, Techniques and Applications</i> , 1996, 13, 159-163.	1.5	323
16	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
17	Amyloid beta from axons and dendrites reduces local spine number and plasticity. <i>Nature Neuroscience</i> , 2010, 13, 190-196.	14.8	295
18	Metabolism of the â€œSwedishâ€•Amyloid Precursor Protein Variant in Neuro2a (N2a) Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 9390-9397.	3.4	286

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19	Evidence That Synaptically Released β -Amyloid Accumulates as Extracellular Deposits in the Hippocampus of Transgenic Mice. <i>Journal of Neuroscience</i> , 2002, 22, 9785-9793.	3.6	281
20	Microglia turnover with aging and in an Alzheimer's model via long-term in vivo single-cell imaging. <i>Nature Neuroscience</i> , 2017, 20, 1371-1376.	14.8	277
21	Role of the β -Amyloid protein in Alzheimer's disease. <i>FASEB Journal</i> , 1995, 9, 366-370.	0.5	259
22	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
23	Modulation of β -Secretase Reduces β -Amyloid Deposition in a Transgenic Mouse Model of Alzheimer's Disease. <i>Neuron</i> , 2010, 67, 769-780.	8.1	236
24	Antibiotic-induced perturbations in microbial diversity during post-natal development alters amyloid pathology in an aged APPSWE/PS1 ^{E9} murine model of Alzheimer's disease. <i>Scientific Reports</i> , 2017, 7, 10411.	3.3	206
25	Characterization of a Presenilin-mediated Amyloid Precursor Protein Carboxyl-terminal Fragment β . <i>Journal of Biological Chemistry</i> , 2001, 276, 43756-43760.	3.4	188
26	The Notch Ligands, Delta1 and Jagged2, Are Substrates for Presenilin-dependent β -Secretase Cleavage. <i>Journal of Biological Chemistry</i> , 2003, 278, 7751-7754.	3.4	183
27	Sex-specific effects of microbiome perturbations on cerebral β amyloidosis and microglia phenotypes. <i>Journal of Experimental Medicine</i> , 2019, 216, 1542-1560.	8.5	165
28	Non-Cell-Autonomous Effects of Presenilin 1 Variants on Enrichment-Mediated Hippocampal Progenitor Cell Proliferation and Differentiation. <i>Neuron</i> , 2008, 59, 568-580.	8.1	159
29	Furin mediates enhanced production of fibrillogenic A β peptides in familial British dementia. <i>Nature Neuroscience</i> , 1999, 2, 984-988.	14.8	146
30	Hyperaccumulation of FAD-linked presenilin 1 variants in vivo. <i>Nature Medicine</i> , 1997, 3, 756-760.	30.7	140
31	CELLULAR AND MOLECULAR BIOLOGY OF ALZHEIMER'S DISEASE AND ANIMAL MODELS. <i>Annual Review of Medicine</i> , 1994, 45, 435-446.	12.2	127
32	Activation and intrinsic β -secretase activity of presenilin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21435-21440.	7.1	127
33	Altered metabolism of familial Alzheimer's disease-linked amyloid precursor protein variants in yeast artificial chromosome transgenic mice. <i>Human Molecular Genetics</i> , 1997, 6, 1535-1541.	2.9	117
34	Regulated Hyperaccumulation of Presenilin-1 and the β -Secretase Complex. <i>Journal of Biological Chemistry</i> , 2003, 278, 33992-34002.	3.4	94
35	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
36	Evidence That the β -NF Motif in Transmembrane Domain 4 of Presenilin 1 Is Critical for Binding with PEN-2. <i>Journal of Biological Chemistry</i> , 2005, 280, 41953-41966.	3.4	70

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37	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
38	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
39	A Sequence within the First Transmembrane Domain of PEN-2 Is Critical for PEN-2-mediated Endoproteolysis of Presenilin 1. <i>Journal of Biological Chemistry</i> , 2005, 280, 1992-2001.	3.4	57
40	The Value of Transgenic Models for the Study of Neurodegenerative Diseases. <i>Annals of the New York Academy of Sciences</i> , 2000, 920, 179-191.	3.8	51
41	Synergistic depletion of gut microbial consortia, but not individual antibiotics, reduces amyloidosis in APPPS1-21 Alzheimer's transgenic mice. <i>Scientific Reports</i> , 2020, 10, 8183.	3.3	51
42	Soluble β -Secretase Modulators Selectively Inhibit the Production of the 42-Amino Acid Amyloid β Peptide Variant and Augment the Production of Multiple Carboxy-Truncated Amyloid β Species. <i>Biochemistry</i> , 2014, 53, 702-713.	2.5	49
43	Requirement for Presenilin 1 in Facilitating Jagged 2-Mediated Endoproteolysis and Signaling of Notch 1. <i>Journal of Molecular Neuroscience</i> , 2001, 15, 189-204.	2.3	46
44	Gut microbiota-driven brain β amyloidosis in mice requires microglia. <i>Journal of Experimental Medicine</i> , 2022, 219, .	8.5	44
45	Differential Release of β -Amyloid from Dendrite- Versus Axon-Targeted APP. <i>Journal of Neuroscience</i> , 2014, 34, 12313-12327.	3.6	38
46	Neuronal degeneration in human diseases and animal models. <i>Journal of Neurobiology</i> , 1992, 23, 1277-1294.	3.6	34
47	Structure of β -Secretase and Its Trimeric Pre-activation Intermediate by Single-particle Electron Microscopy. <i>Journal of Biological Chemistry</i> , 2011, 286, 21440-21449.	3.4	34
48	Identification of a tetratricopeptide repeat-like domain in the nicastrin subunit of β -secretase using synthetic antibodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8534-8539.	7.1	32
49	Acne Inversa Caused by Missense Mutations in NCSTN Is Not Fully Compatible with Impairments in Notch Signaling. <i>Journal of Investigative Dermatology</i> , 2015, 135, 618-620.	0.7	28
50	Transgenic Mouse Models of Alzheimer's Disease and Amyotrophic Lateral Sclerosis. <i>Brain Pathology</i> , 1998, 8, 735-757.	4.1	27
51	Expression of a Familial Alzheimer's Disease-Linked Presenilin-1 Variant Enhances Perforant Pathway Lesion-Induced Neuronal Loss in the Entorhinal Cortex. <i>Journal of Neuroscience</i> , 2006, 26, 429-434.	3.6	27
52	Deficits in Enrichment-Dependent Neurogenesis and Enhanced Anxiety Behaviors Mediated by Expression of Alzheimer's Disease-Linked Ps1 Variants Are Rescued by Microglial Depletion. <i>Journal of Neuroscience</i> , 2019, 39, 6766-6780.	3.6	22
53	Nucleotide sequence of the chromosome 14-encoded <i>S182</i> cDNA and revised secondary structure prediction. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1995, 2, 188-190.	3.0	18
54	Infection and inflammation: New perspectives on Alzheimer's disease. <i>Brain, Behavior, & Immunity - Health</i> , 2022, 22, 100462.	2.5	17

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55	Endogenous expression of FAD-linked PS1 impairs proliferation, neuronal differentiation and survival of adult hippocampal progenitors. <i>Molecular Neurodegeneration</i> , 2013, 8, 41.	10.8	15
56	Mutant presenilin 1 expression in excitatory neurons impairs enrichment-mediated phenotypes of adult hippocampal progenitor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9148-9153.	7.1	14
57	The topology of pen-2, a β -secretase subunit, revisited: evidence for a reentrant loop and a single pass transmembrane domain. <i>Molecular Neurodegeneration</i> , 2015, 10, 39.	10.8	14
58	Alteration in synaptic nanoscale organization dictates amyloidogenic processing in Alzheimer's disease. <i>IScience</i> , 2021, 24, 101924.	4.1	13
59	Inherited Neurodegenerative Diseases and Transgenic Models. <i>Brain Pathology</i> , 1996, 6, 467-480.	4.1	9
60	An APP ectodomain mutation outside of the A β 2 domain promotes A β 2 production in vitro and deposition in vivo. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	7
61	A Synthetic Antibody Fragment Targeting Nicastrin Affects Assembly and Trafficking of β -Secretase. <i>Journal of Biological Chemistry</i> , 2014, 289, 34851-34861.	3.4	6
62	Evidence That the "Lid" Domain of Nicastrin Is Not Essential for Regulating β -Secretase Activity. <i>Journal of Biological Chemistry</i> , 2016, 291, 6748-6753.	3.4	6
63	Negative evidence for a role of APH1B T27I variant in Alzheimer's disease. <i>Human Molecular Genetics</i> , 2020, 29, 955-966.	2.9	6
64	Amyloid β -protein stimulates parallel increases in cellular levels of its precursor and amyloid precursor-like protein 2 (APLP2) in human cerebrovascular smooth muscle cells. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 1997, 4, 54-60.	3.0	4
65	Alzheimer's Disease: Clinical, Biological, and Therapeutic Perspectives. <i>Journal of Molecular Neuroscience</i> , 2001, 17, 99-99.	2.3	4
66	Motor Neuron Disease and Model Systems: Aetiologies, Mechanisms and Therapies. <i>Novartis Foundation Symposium</i> , 1996, 196, 3-17.	1.1	1
67	EC-03-03: GUT MICROBIOME ALTERATIONS IN ALZHEIMER'S DISEASE: PRECLINICAL EVIDENCE. , 2018, 14, P1007-P1007.		0
68	Modulation of amyloid deposition and neuroinflammation by the microbiome. <i>Alzheimer's and Dementia</i> , 2020, 16, e044154.	0.8	0