

Sreedharan Sajikumar

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

2,935
citations

159358

30
h-index

182168

51
g-index

77
all docs

77
docs citations

77
times ranked

2882
citing authors

#	ARTICLE	IF	CITATIONS
1	Late-associativity, synaptic tagging, and the role of dopamine during LTP and LTD. <i>Neurobiology of Learning and Memory</i> , 2004, 82, 12-25.	1.0	291
2	PKMÎ¶ Maintains Late Long-Term Potentiation by N-Ethylmaleimide-Sensitive Factor/GluR2-Dependent Trafficking of Postsynaptic AMPA Receptors. <i>Journal of Neuroscience</i> , 2008, 28, 7820-7827.	1.7	229
3	Identification of Compartment- and Process-Specific Molecules Required for "Synaptic Tagging" during Long-Term Potentiation and Long-Term Depression in Hippocampal CA1. <i>Journal of Neuroscience</i> , 2007, 27, 5068-5080.	1.7	177
4	Synaptic Tagging and Cross-Tagging: The Role of Protein Kinase MÎ in Maintaining Long-Term Potentiation But Not Long-Term Depression. <i>Journal of Neuroscience</i> , 2005, 25, 5750-5756.	1.7	169
5	Synergistic requirements for the induction of dopaminergic D1/D5-receptor-mediated LTP in hippocampal slices of rat CA1 in vitro. <i>Neuropharmacology</i> , 2007, 52, 1547-1554.	2.0	121
6	The Type IV-Specific Phosphodiesterase Inhibitor Rolipram and Its Effect on Hippocampal Long-Term Potentiation and Synaptic Tagging. <i>Journal of Neuroscience</i> , 2004, 24, 7740-7744.	1.7	99
7	Metaplasticity governs compartmentalization of synaptic tagging and capture through brain-derived neurotrophic factor (BDNF) and protein kinase MÎ¶ (PKMÎ¶). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2551-2556.	3.3	97
8	Protein synthesis-dependent long-term functional plasticity: methods and techniques. <i>Current Opinion in Neurobiology</i> , 2005, 15, 607-613.	2.0	89
9	Regulation of feeding by somatostatin neurons in the tuberal nucleus. <i>Science</i> , 2018, 361, 76-81.	6.0	83
10	Anisomycin inhibits the late maintenance of long-term depression in rat hippocampal slices in vitro. <i>Neuroscience Letters</i> , 2003, 338, 147-150.	1.0	65
11	Impaired spatial memory and enhanced long-term potentiation in mice with forebrain-specific ablation of the Stim genes. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 180.	1.0	65
12	Resetting of synaptic tags is time- and activity-dependent in rat hippocampal CA1 in vitro. <i>Neuroscience</i> , 2004, 129, 503-507.	1.1	63
13	Mitogen-Activated Protein Kinase-Mediated Reinforcement of Hippocampal Early Long-Term Depression by the Type IV-Specific Phosphodiesterase Inhibitor Rolipram and Its Effect on Synaptic Tagging. <i>Journal of Neuroscience</i> , 2005, 25, 10664-10670.	1.7	62
14	Priming of short-term potentiation and synaptic tagging/capture mechanisms by ryanodine receptor activation in rat hippocampal CA1. <i>Learning and Memory</i> , 2009, 16, 178-186.	0.5	58
15	Inhibition of Histone Deacetylase 3 Restores Amyloid-Î² Oligomer-Induced Plasticity Deficit in Hippocampal CA1 Pyramidal Neurons. <i>Journal of Alzheimer's Disease</i> , 2016, 51, 783-791.	1.2	53
16	Competition between recently potentiated synaptic inputs reveals a winner-take-all phase of synaptic tagging and capture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12217-12221.	3.3	51
17	Dopamine induces LTP differentially in apical and basal dendrites through BDNF and voltage-dependent calcium channels. <i>Learning and Memory</i> , 2012, 19, 294-299.	0.5	48
18	Metaplasticity mechanisms restore plasticity and associativity in an animal model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5527-5532.	3.3	48

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19	Making Synapses Strong: Metaplasticity Prolongs Associativity of Long-Term Memory by Switching Synaptic Tag Mechanisms. <i>Cerebral Cortex</i> , 2014, 24, 353-363.	1.6	47
20	Epigenetic regulation of microglial phosphatidylinositol 3-kinase pathway involved in long-term potentiation and synaptic plasticity in rats. <i>Glia</i> , 2020, 68, 656-669.	2.5	46
21	Investigation of Synaptic Tagging/Capture and Cross-capture using Acute Hippocampal Slices from Rodents. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	44
22	The p75 Neurotrophin Receptor Is an Essential Mediator of Impairments in Hippocampal-Dependent Associative Plasticity and Memory Induced by Sleep Deprivation. <i>Journal of Neuroscience</i> , 2019, 39, 5452-5465.	1.7	44
23	Long-term plasticity in the hippocampus: maintaining within and \sim tagging \sim between synapses. <i>FEBS Journal</i> , 2022, 289, 2176-2201.	2.2	42
24	MicroRNA-134-5p inhibition rescues long-term plasticity and synaptic tagging/capture in an $A\beta(1-42)$ -induced model of Alzheimer's disease. <i>Aging Cell</i> , 2020, 19, e13046.	3.0	41
25	Hippocampal area CA2: an emerging modulatory gateway in the hippocampal circuit. <i>Experimental Brain Research</i> , 2018, 236, 919-931.	0.7	40
26	Histone deacetylase 3 inhibition re-establishes synaptic tagging and capture in aging through the activation of nuclear factor kappa B. <i>Scientific Reports</i> , 2015, 5, 16616.	1.6	39
27	Substance P induces plasticity and synaptic tagging/capture in rat hippocampal area CA2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8741-E8749.	3.3	39
28	\sim Tagging \sim along memories in aging: Synaptic tagging and capture mechanisms in the aged hippocampus. <i>Ageing Research Reviews</i> , 2017, 35, 22-35.	5.0	38
29	Epigenetic regulation by G9a/GLP complex ameliorates amyloid β 1-42 induced deficits in long-term plasticity and synaptic tagging/capture in hippocampal pyramidal neurons. <i>Aging Cell</i> , 2017, 16, 1062-1072.	3.0	34
30	Chelation of hippocampal zinc enhances long-term potentiation and synaptic tagging/capture in CA1 pyramidal neurons of aged rats: implications to aging and memory. <i>Aging Cell</i> , 2017, 16, 136-148.	3.0	33
31	ApoE4 expression accelerates hippocampus-dependent cognitive deficits by enhancing $A\beta$ impairment of insulin signaling in an Alzheimer's disease mouse model. <i>Scientific Reports</i> , 2016, 6, 26119.	1.6	32
32	Age-related changes in hippocampal-dependent synaptic plasticity and memory mediated by p75 neurotrophin receptor. <i>Aging Cell</i> , 2021, 20, e13305.	3.0	31
33	Protein kinase M \hat{A} is essential for the induction and maintenance of dopamine-induced long-term potentiation in apical CA1 dendrites. <i>Learning and Memory</i> , 2010, 17, 605-611.	0.5	30
34	Different compartments of apical CA1 dendrites have different plasticity thresholds for expressing synaptic tagging and capture. <i>Learning and Memory</i> , 2011, 18, 327-331.	0.5	28
35	Abnormal TDP-43 function impairs activity-dependent BDNF secretion, synaptic plasticity, and cognitive behavior through altered Sortilin splicing. <i>EMBO Journal</i> , 2019, 38, .	3.5	28
36	Lentiviral silencing of GSK-3 $\hat{2}$ in adult dentate gyrus impairs contextual fear memory and synaptic plasticity. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 158.	1.0	27

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37	Biomimicking Fiber Platform with Tunable Stiffness to Study Mechanotransduction Reveals Stiffness Enhances Oligodendrocyte Differentiation but Impedes Myelination through YAP-Dependent Regulation. <i>Small</i> , 2020, 16, e2003656.	5.2	25
38	Distinct single but not necessarily repeated tetanization is required to induce hippocampal late-LTP in the rat CA1: Figure 1.. <i>Learning and Memory</i> , 2008, 15, 46-49.	0.5	24
39	Ubiquitin-Proteasome System Inhibition Promotes Long-Term Depression and Synaptic Tagging/Capture. <i>Cerebral Cortex</i> , 2016, 26, 2541-2548.	1.6	24
40	Group III metabotropic glutamate receptors gate long-term potentiation and synaptic tagging/capture in rat hippocampal area CA2. <i>ELife</i> , 2020, 9, .	2.8	24
41	Inhibition of G9a/GLP Complex Promotes Long-Term Potentiation and Synaptic Tagging/Capture in Hippocampal CA1 Pyramidal Neurons. <i>Cerebral Cortex</i> , 2017, 27, bhw170.	1.6	23
42	STIM2 regulates AMPA receptor trafficking and plasticity at hippocampal synapses. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 54-61.	1.0	23
43	Dopamine D1/D5 receptor signaling regulates synaptic cooperation and competition in hippocampal CA1 pyramidal neurons via sustained ERK 1/2 activation. <i>Hippocampus</i> , 2016, 26, 137-150.	0.9	22
44	Inhibition of Histone Deacetylase Reinstates Hippocampus-Dependent Long-Term Synaptic Plasticity and Associative Memory in Sleep-Deprived Mice. <i>Cerebral Cortex</i> , 2020, 30, 4169-4182.	1.6	21
45	Sex-specific accelerated decay in time/activity-dependent plasticity and associative memory in an animal model of Alzheimer's disease. <i>Aging Cell</i> , 2021, 20, e13502.	3.0	21
46	Cognitive and emotional information processing: protein synthesis and gene expression. <i>Journal of Physiology</i> , 2007, 584, 389-400.	1.3	20
47	Activation of microglia in acute hippocampal slices affects activity-dependent long-term potentiation and synaptic tagging and capture in area CA1. <i>Neurobiology of Learning and Memory</i> , 2019, 163, 107039.	1.0	16
48	Epigenetics and memory: Emerging role of histone lysine methyltransferase G9a/GLP complex as bidirectional regulator of synaptic plasticity. <i>Neurobiology of Learning and Memory</i> , 2019, 159, 1-5.	1.0	16
49	Differential involvement of Ca ²⁺ /calmodulin-dependent protein kinases and mitogen-activated protein kinases in the dopamine D1/D5 receptor-mediated potentiation in hippocampal CA1 pyramidal neurons. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 111-120.	1.0	15
50	Long-term population spike-timing-dependent plasticity promotes synaptic tagging but not cross-tagging in rat hippocampal area CA1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5737-5746.	3.3	14
51	Effects of Podophyllum hexandrum on radiation induced delay of postnatal appearance of reflexes and physiological markers in rats irradiated in utero. <i>Phytotherapy Research</i> , 2002, 9, 447-454.	2.3	11
52	A Three-Photon Active Organic Fluorophore for Deep Tissue Ratiometric Imaging of Intracellular Divalent Zinc. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1523-1527.	1.7	11
53	Deletion of CD137 Ligand Exacerbates Renal and Cutaneous but Alleviates Cerebral Manifestations in Lupus. <i>Frontiers in Immunology</i> , 2019, 10, 1411.	2.2	11
54	Regulation of aberrant proteasome activity re-establishes plasticity and long-term memory in an animal model of Alzheimer's disease. <i>FASEB Journal</i> , 2020, 34, 9466-9479.	0.2	11

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55	Inactive variants of death receptor p75 ^{NTR} reduce Alzheimer's neuropathology by interfering with APP internalization. <i>EMBO Journal</i> , 2021, 40, e104450.	3.5	11
56	Podophyllum hexandrum prevents radiation-induced neuronal damage in postnatal rats exposed in utero. <i>Phytotherapy Research</i> , 2003, 17, 761-766.	2.8	10
57	Inhibition of Nogo-A rescues synaptic plasticity and associativity in APP/PS1 animal model of Alzheimer's disease. <i>Seminars in Cell and Developmental Biology</i> , 2023, 139, 111-120.	2.3	9
58	Intermittent fasting promotes prolonged associative interactions during synaptic tagging/capture by altering the metaplastic properties of the CA1 hippocampal neurons. <i>Neurobiology of Learning and Memory</i> , 2018, 154, 70-77.	1.0	7
59	G9a/GLP Complex Acts as a Bidirectional Switch to Regulate Metabotropic Glutamate Receptor-Dependent Plasticity in Hippocampal CA1 Pyramidal Neurons. <i>Cerebral Cortex</i> , 2019, 29, 2932-2946.	1.6	6
60	Inhibition of lysine methyltransferase G9a/GLP reinstates long-term synaptic plasticity and synaptic tagging/capture by facilitating protein synthesis in the hippocampal CA1 area of APP/PS1 mouse model of Alzheimer's disease. <i>Translational Neurodegeneration</i> , 2021, 10, 23.	3.6	6
61	Metaplastic Reinforcement of Long-Term Potentiation in Hippocampal Area CA2 by Cholinergic Receptor Activation. <i>Journal of Neuroscience</i> , 2021, 41, 9082-9098.	1.7	5
62	Metaplasticity of Synaptic Tagging and Capture: Memory Beyond the Circle. , 2015, , 197-213.		3
63	Epigenetics: the panacea for cognitive decline?. <i>Aging</i> , 2018, 10, 1-2.	1.4	3
64	Fading memories in aging and neurodegeneration: Is p75 neurotrophin receptor a culprit?. <i>Ageing Research Reviews</i> , 2022, 75, 101567.	5.0	3
65	Inhibitory Metaplasticity in Juvenile Stressed Rats Restores Associative Memory in Adulthood by Regulating Epigenetic Complex G9a/GLP. <i>International Journal of Neuropsychopharmacology</i> , 2022, 25, 576-589.	1.0	2
66	Serotonin facilitates late-associative plasticity via synaptic tagging/cross-tagging and capture at hippocampal CA2 synapses in male rats. , 2022, 1, .		2
67	A combinatorial approach to enhance the biocompatibility and heating efficiency of magnetic hyperthermia- Serum Albumin conjugated ferrimagnetic magnetite nanoparticles. <i>MRS Advances</i> , 2016, 1, 247-254.	0.5	1
68	Modulation of the Ubiquitin-Proteasome System Restores Plasticity in Hippocampal Pyramidal Neurons of the APP/PS1 Alzheimer's Disease-Like Mice. <i>Journal of Alzheimer's Disease</i> , 2022, 86, 1611-1616.	1.2	1
69	Distinct contributions of ventral CA1/amygdala co-activation to the induction and maintenance of synaptic plasticity. <i>Cerebral Cortex</i> , 2022, , .	1.6	1
70	MCCS 2017: From synapses to behaviour. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 1-2.	1.0	0
71	Protein Synthesis and Synapse Specificity in Functional Plasticity. , 0, , 269-296.		0
72	Sex matters in Alzheimer's disease?. <i>Aging</i> , 2022, 14, 2018-2019.	1.4	0