

Taro Saito

List of Publications by Year in descending order

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66
papers

3,083
citations

147801

31
h-index

161849

54
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67
all docs

67
docs citations

67
times ranked

3252
citing authors

#	ARTICLE	IF	CITATIONS
1	Disulfide bond formation in microtubule-associated tau protein promotes tau accumulation and toxicity <i>in vivo</i> . <i>Human Molecular Genetics</i> , 2021, 30, 1955-1967.	2.9	15
2	Lemur tail kinase 1 (LMTK1) regulates the endosomal localization of β -secretase BACE1. <i>Journal of Biochemistry</i> , 2021, 170, 729-738.	1.7	4
3	Microtubule affinity-regulating kinase 4 with an Alzheimer's disease-related mutation promotes tau accumulation and exacerbates neurodegeneration. <i>Journal of Biological Chemistry</i> , 2020, 295, 17138-17147.	3.4	25
4	Isoform-dependent subcellular localization of LMTK1A and LMTK1B and their roles in axon outgrowth and spine formation. <i>Journal of Biochemistry</i> , 2020, 168, 23-32.	1.7	3
5	The LMTK1-TBC1D9B-Rab11A Cascade Regulates Dendritic Spine Formation via Endosome Trafficking. <i>Journal of Neuroscience</i> , 2019, 39, 9491-9502.	3.6	19
6	Tau isoform expression and phosphorylation in marmoset brains. <i>Journal of Biological Chemistry</i> , 2019, 294, 11433-11444.	3.4	27
7	Cdk5 increases MARK4 activity and augments pathological tau accumulation and toxicity through tau phosphorylation at Ser262. <i>Human Molecular Genetics</i> , 2019, 28, 3062-3071.	2.9	25
8	6. Molecular mechanisms of neural stem cells differentiation. , 2019, , 127-144.		0
9	S6K/p70S6K1 protects against tau-mediated neurodegeneration by decreasing the level of tau phosphorylated at Ser262 in a <i>Drosophila</i> model of tauopathy. <i>Neurobiology of Aging</i> , 2018, 71, 255-264.	3.1	6
10	Compatibility of foliage-dwelling predatory mites and mycoinsecticides, and their combined efficacy against western flower thrips <i>Frankliniella occidentalis</i> . <i>Journal of Pest Science</i> , 2018, 91, 1291-1300.	3.7	16
11	Ca ²⁺ /calmodulin-dependent protein kinase II promotes neurodegeneration caused by tau phosphorylated at Ser262/356 in a transgenic <i>Drosophila</i> model of tauopathy. <i>Journal of Biochemistry</i> , 2017, 162, 335-342.	1.7	29
12	In vivo regulation of glycogen synthase kinase β activity in neurons and brains. <i>Scientific Reports</i> , 2017, 7, 8602.	3.3	90
13	Kinase activity of endosomal kinase <i>LMTK1A</i> regulates its cellular localization and interactions with cytoskeletons. <i>Genes To Cells</i> , 2016, 21, 1080-1094.	1.2	8
14	Two Degradation Pathways of the p35 Cdk5 (Cyclin-dependent Kinase) Activation Subunit, Dependent and Independent of Ubiquitination. <i>Journal of Biological Chemistry</i> , 2016, 291, 4649-4657.	3.4	17
15	Compatibility of soil-dwelling predators and microbial agents and their efficacy in controlling soil-dwelling stages of western flower thrips <i>Frankliniella occidentalis</i> . <i>Biological Control</i> , 2016, 92, 92-100.	3.0	45
16	Effects of p35 Mutations Associated with Mental Retardation on the Cellular Function of p35-CDK5. <i>PLoS ONE</i> , 2015, 10, e0140821.	2.5	2
17	The effect of Cyclin-dependent kinase 5 on voltage-dependent calcium channels in <i>PC12</i> cells varies according to channel type and cell differentiation state. <i>Journal of Neurochemistry</i> , 2014, 130, 498-506.	3.9	7
18	LMTK1 regulates dendritic formation by regulating movement of Rab11A-positive endosomes. <i>Molecular Biology of the Cell</i> , 2014, 25, 1755-1768.	2.1	31

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19	Cyclin-dependent kinase 5 phosphorylates and induces the degradation of ataxin-2. <i>Neuroscience Letters</i> , 2014, 563, 112-117.	2.1	14
20	Phosphorylation of Cyclin-dependent Kinase 5 (Cdk5) at Tyr-15 Is Inhibited by Cdk5 Activators and Does Not Contribute to the Activation of Cdk5. <i>Journal of Biological Chemistry</i> , 2014, 289, 19627-19636.	3.4	37
21	Valproic acid downregulates Cdk5 activity via the transcription of the p35 mRNA. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 678-682.	2.1	8
22	Preferential targeting of p39-activated Cdk5 to Rac1-induced lamellipodia. <i>Molecular and Cellular Neurosciences</i> , 2014, 61, 34-45.	2.2	7
23	Dab1-mediated colocalization of multi-adaptor protein CIN85 with Reelin receptors, ER2 and VLDLR, in neurons. <i>Genes To Cells</i> , 2013, 18, 410-424.	1.2	10
24	Structural Basis for the Different Stability and Activity between the Cdk5 Complexes with p35 and p39 Activators. <i>Journal of Biological Chemistry</i> , 2013, 288, 32433-32439.	3.4	10
25	Isomerase Pin1 Stimulates Dephosphorylation of Tau Protein at Cyclin-dependent Kinase (Cdk5)-dependent Alzheimer Phosphorylation Sites. <i>Journal of Biological Chemistry</i> , 2013, 288, 7968-7977.	3.4	52
26	LMTK1/AATYK1 Is a Novel Regulator of Axonal Outgrowth That Acts via Rab11 in a Cdk5-Dependent Manner. <i>Journal of Neuroscience</i> , 2012, 32, 6587-6599.	3.6	58
27	Cdk5 phosphorylation of its activators p35 and p39 determines subcellular location of the holokinase in a phosphorylation site-specific manner. <i>Journal of Cell Science</i> , 2012, 125, 3421-9.	2.0	34
28	Regulation of Mitochondrial Transport and Inter-Microtubule Spacing by Tau Phosphorylation at the Sites Hyperphosphorylated in Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 2430-2441.	3.6	156
29	Cyclin-Dependent Kinase 5 (Cdk5): Preparation and Measurement of Kinase Activity. <i>Neuromethods</i> , 2012, , 87-103.	0.3	1
30	Calpastatin, an endogenous calpain-inhibitor protein, regulates the cleavage of the Cdk5 activator p35 to p25. <i>Journal of Neurochemistry</i> , 2011, 117, 504-515.	3.9	30
31	Small molecule inhibitor of type I transforming growth factor- β 2 receptor kinase ameliorates the inhibitory milieu in injured brain and promotes regeneration of nigrostriatal dopaminergic axons. <i>Journal of Neuroscience Research</i> , 2011, 89, 381-393.	2.9	31
32	Neuronal expression of two isoforms of mouse Septin 5. <i>Journal of Neuroscience Research</i> , 2010, 88, 1309-1316.	2.9	11
33	AATYK1A phosphorylation by Cdk5 regulates the recycling endosome pathway. <i>Genes To Cells</i> , 2010, 15, 783-797.	1.2	17
34	Quantitative Measurement of in Vivo Phosphorylation States of Cdk5 Activator p35 by Phos-tag SDS-PAGE. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 1133-1143.	3.8	53
35	Membrane Association Facilitates Degradation and Cleavage of the Cyclin-Dependent Kinase 5 Activators p35 and p39. <i>Biochemistry</i> , 2010, 49, 5482-5493.	2.5	48
36	Deletion of CDKAL1 Affects Mitochondrial ATP Generation and First-Phase Insulin Exocytosis. <i>PLoS ONE</i> , 2010, 5, e15553.	2.5	64

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37	Effect of Pin1 or Microtubule Binding on Dephosphorylation of FTDP-17 Mutant Tau. <i>Journal of Biological Chemistry</i> , 2009, 284, 16840-16847.	3.4	22
38	Commitment of 1-Methyl-4-phenylpyridinium Ion-induced Neuronal Cell Death by Proteasome-mediated Degradation of p35 Cyclin-dependent Kinase 5 Activator. <i>Journal of Biological Chemistry</i> , 2009, 284, 26029-26039.	3.4	27
39	Myristoylation of p39 and p35 is a determinant of cytoplasmic or nuclear localization of active cyclin-dependent kinase 5 complexes. <i>Journal of Neurochemistry</i> , 2008, 106, 1325-1336.	3.9	101
40	Suppression of Mutant Huntingtin Aggregate Formation by Cdk5/p35 through the Effect on Microtubule Stability. <i>Journal of Neuroscience</i> , 2008, 28, 8747-8755.	3.6	41
41	Suppression of Calpain-dependent Cleavage of the CDK5 Activator p35 to p25 by Site-specific Phosphorylation. <i>Journal of Biological Chemistry</i> , 2007, 282, 1687-1694.	3.4	65
42	Phosphorylation of Adult Type Sept5 (CDCrel-1) by Cyclin-dependent Kinase 5 Inhibits Interaction with Syntaxin-1. <i>Journal of Biological Chemistry</i> , 2007, 282, 7869-7876.	3.4	38
43	Casein kinase 2 is the major enzyme in brain that phosphorylates Ser129 of human τ : Implication for τ synucleinopathies. <i>FEBS Letters</i> , 2007, 581, 4711-4717.	2.8	84
44	Regulation of membrane association and kinase activity of Cdk5-p35 by phosphorylation of p35. <i>Journal of Neuroscience Research</i> , 2007, 85, 3071-3078.	2.9	14
45	Regulation of the interaction of Disabled-1 with CIN85 by phosphorylation with Cyclin-dependent kinase 5. <i>Genes To Cells</i> , 2007, 12, 1315-1327.	1.2	17
46	Cdk5-p39 is a labile complex with the similar substrate specificity to Cdk5-p35. <i>Journal of Neurochemistry</i> , 2007, 102, 1477-1487.	3.9	31
47	p25/Cyclin-dependent kinase 5 promotes the progression of cell death in nucleus of endoplasmic reticulum-stressed neurons. <i>Journal of Neurochemistry</i> , 2007, 102, 133-140.	3.9	54
48	Enhanced activation of Ca ²⁺ /Calmodulin-dependent protein kinase II upon downregulation of cyclin-dependent kinase 5-p35. <i>Journal of Neuroscience Research</i> , 2006, 84, 747-754.	2.9	33
49	Aggregate formation and phosphorylation of neurofilament-L Pro22 Charcot-Marie-Tooth disease mutants. <i>Human Molecular Genetics</i> , 2006, 15, 943-952.	2.9	81
50	Control of cyclin-dependent kinase 5 (Cdk5) activity by glutamatergic regulation of p35 stability. <i>Journal of Neurochemistry</i> , 2005, 93, 502-512.	3.9	78
51	Impairment of hippocampal long-term depression and defective spatial learning and memory in p35 ^{-/-} mice. <i>Journal of Neurochemistry</i> , 2005, 94, 917-925.	3.9	89
52	Activation of latent cyclin-dependent kinase 5 (Cdk5)-p35 complexes by membrane dissociation. <i>Journal of Neurochemistry</i> , 2005, 94, 1535-1545.	3.9	30
53	Phosphorylation of FTDP-17 Mutant tau by Cyclin-dependent Kinase 5 Complexed with p35, p25, or p39. <i>Journal of Biological Chemistry</i> , 2005, 280, 31522-31529.	3.4	37
54	The Regulation of Cyclin-Dependent Kinase 5 Activity through the Metabolism of p35 or p39 Cdk5 Activator. <i>NeuroSignals</i> , 2003, 12, 221-229.	0.9	85

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55	Apoptosis-associated tyrosine kinase is a Cdk5 activator p35 binding protein. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 398-404.	2.1	25
56	Tau Phosphorylation by Cyclin-dependent Kinase 5/p39 during Brain Development Reduces Its Affinity for Microtubules. <i>Journal of Biological Chemistry</i> , 2003, 278, 10506-10515.	3.4	78
57	Cophosphorylation of amphiphysin I and dynamin I by Cdk5 regulates clathrin-mediated endocytosis of synaptic vesicles. <i>Journal of Cell Biology</i> , 2003, 163, 813-824.	5.2	182
58	Developmental Regulation of the Proteolysis of the p35 Cyclin-Dependent Kinase 5 Activator by Phosphorylation. <i>Journal of Neuroscience</i> , 2003, 23, 1189-1197.	3.6	83
59	In Vivo and in Vitro Phosphorylation at Ser-493 in the Glutamate (E)-segment of Neurofilament-H Subunit by Glycogen Synthase Kinase 3 β . <i>Journal of Biological Chemistry</i> , 2002, 277, 36032-36039.	3.4	32
60	Truncation of CDK5 Activator p35 Induces Intensive Phosphorylation of Ser202/Thr205 of Human Tau. <i>Journal of Biological Chemistry</i> , 2002, 277, 44525-44530.	3.4	131
61	Phosphorylation of Protein Phosphatase Inhibitor-1 by Cdk5. <i>Journal of Biological Chemistry</i> , 2001, 276, 14490-14497.	3.4	83
62	Accumulation of phosphorylated neurofilaments and increase in apoptosis-specific protein and phosphorylated c-Jun induced by proteasome inhibitors. <i>Journal of Neuroscience Research</i> , 2000, 62, 75-83.	2.9	27
63	Calpain-dependent Proteolytic Cleavage of the p35 Cyclin-dependent Kinase 5 Activator to p25. <i>Journal of Biological Chemistry</i> , 2000, 275, 17166-17172.	3.4	346
64	Okadaic Acid-Stimulated Degradation of p35, an Activator of CDK5, by Proteasome in Cultured Neurons. <i>Biochemical and Biophysical Research Communications</i> , 1998, 252, 775-778.	2.1	37
65	Evidence for cdk5 as a Major Activity Phosphorylating Tau Protein in Porcine Brain Extract ¹ . <i>Journal of Biochemistry</i> , 1995, 117, 741-749.	1.7	74
66	In situ dephosphorylation of tau by protein phosphatase 2A and 2B in fetal rat primary cultured neurons. <i>FEBS Letters</i> , 1995, 376, 238-242.	2.8	47