

Shin-ichi Hisanaga

List of Publications by Year in descending order

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96
papers

3,879
citations

117571

34
h-index

133188

59
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98
all docs

98
docs citations

98
times ranked

4300
citing authors

#	ARTICLE	IF	CITATIONS
1	Calpain-dependent Proteolytic Cleavage of the p35 Cyclin-dependent Kinase 5 Activator to p25. <i>Journal of Biological Chemistry</i> , 2000, 275, 17166-17172.	1.6	346
2	Physiological and pathological phosphorylation of tau by Cdk5. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 65.	1.4	194
3	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.	2.3	182
4	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.	1.7	156
5	Propagation of pathological β -synuclein in marmoset brain. <i>Acta Neuropathologica Communications</i> , 2017, 5, 12.	2.4	142
6	Truncation of CDK5 Activator p35 Induces Intensive Phosphorylation of Ser202/Thr205 of Human Tau. <i>Journal of Biological Chemistry</i> , 2002, 277, 44525-44530.	1.6	131
7	Regulation and role of cyclin-dependent kinase activity in neuronal survival and death. <i>Journal of Neurochemistry</i> , 2010, 115, 1309-1321.	2.1	103
8	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.	2.1	101
9	In vivo regulation of glycogen synthase kinase 3 β activity in neurons and brains. <i>Scientific Reports</i> , 2017, 7, 8602.	1.6	90
10	Impairment of hippocampal long-term depression and defective spatial learning and memory in p35 ^{-/-} mice. <i>Journal of Neurochemistry</i> , 2005, 94, 917-925.	2.1	89
11	The Regulation of Cyclin-Dependent Kinase 5 Activity through the Metabolism of p35 or p39 Cdk5 Activator. <i>NeuroSignals</i> , 2003, 12, 221-229.	0.5	85
12	Phosphorylation of Protein Phosphatase Inhibitor-1 by Cdk5. <i>Journal of Biological Chemistry</i> , 2001, 276, 14490-14497.	1.6	83
13	Developmental Regulation of the Proteolysis of the p35 Cyclin-Dependent Kinase 5 Activator by Phosphorylation. <i>Journal of Neuroscience</i> , 2003, 23, 1189-1197.	1.7	83
14	Phospho-Tau Bar Code: Analysis of Phosphoisotypes of Tau and Its Application to Tauopathy. <i>Frontiers in Neuroscience</i> , 2018, 12, 44.	1.4	82
15	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.	1.6	78
16	Control of cyclin-dependent kinase 5 (Cdk5) activity by glutamatergic regulation of p35 stability. <i>Journal of Neurochemistry</i> , 2005, 93, 502-512.	2.1	78
17	Phosphorylation States of Microtubule-Associated Protein 2 (MAP2) Determine the Regulatory Role of MAP2 in Microtubule Dynamics. <i>Biochemistry</i> , 1997, 36, 12574-12582.	1.2	75
18	Cdk5 regulates differentiation of oligodendrocyte precursor cells through the direct phosphorylation of paxillin. <i>Journal of Cell Science</i> , 2007, 120, 4355-4366.	1.2	74

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19	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.	1.6	65
20	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.	1.7	58
21	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.	2.1	54
22	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.	2.5	53
23	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.	1.6	52
24	Phosphorylation of Drebrin by Cyclin-Dependent Kinase 5 and Its Role in Neuronal Migration. <i>PLoS ONE</i> , 2014, 9, e92291.	1.1	51
25	Membrane Association Facilitates Degradation and Cleavage of the Cyclin-Dependent Kinase 5 Activators p35 and p39. <i>Biochemistry</i> , 2010, 49, 5482-5493.	1.2	48
26	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.	1.3	47
27	Î±-synuclein strains that cause distinct pathologies differentially inhibit proteasome. <i>ELife</i> , 2020, 9, .	2.8	45
28	Cdk5 Regulation of the GRAB-Mediated Rab8-Rab11 Cascade in Axon Outgrowth. <i>Journal of Neuroscience</i> , 2017, 37, 790-806.	1.7	43
29	Porcine brain neurofilament-H tail domain kinase: Its identification as cdk5/p26 complex and comparison with cdc2/cyclin B kinase. <i>Cytoskeleton</i> , 1995, 31, 283-297.	4.4	42
30	Suppression of Mutant Huntingtin Aggregate Formation by Cdk5/p35 through the Effect on Microtubule Stability. <i>Journal of Neuroscience</i> , 2008, 28, 8747-8755.	1.7	41
31	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.	1.6	38
32	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.	1.0	37
33	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.	1.6	37
34	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.	1.6	37
35	Isoform-independent and -dependent phosphorylation of microtubule-associated protein tau in mouse brain during postnatal development. <i>Journal of Biological Chemistry</i> , 2018, 293, 1781-1793.	1.6	36
36	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.	1.2	34

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37	Cyclin I is involved in the regulation of cell cycle progression. <i>Cell Cycle</i> , 2013, 12, 2617-2624.	1.3	34
38	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.	1.3	33
39	Tau phosphorylation at Alzheimer's disease-related Ser356 contributes to tau stabilization when PAR-1/MARK activity is elevated. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 929-934.	1.0	33
40	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.	1.6	32
41	Cdk5-p39 is a labile complex with the similar substrate specificity to Cdk5-p35. <i>Journal of Neurochemistry</i> , 2007, 102, 1477-1487.	2.1	31
42	Small molecule inhibitor of type I transforming growth factor- β 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.	1.3	31
43	LMTK1 regulates dendritic formation by regulating movement of Rab11A-positive endosomes. <i>Molecular Biology of the Cell</i> , 2014, 25, 1755-1768.	0.9	31
44	Excess APP<i>O</i>-glycosylation by GalNAc-T6 decreases A β production. <i>Journal of Biochemistry</i> , 2017, 161, 99-111.	0.9	31
45	Activation of latent cyclin-dependent kinase 5 (Cdk5)-p35 complexes by membrane dissociation. <i>Journal of Neurochemistry</i> , 2005, 94, 1535-1545.	2.1	30
46	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.	2.1	30
47	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.	0.9	29
48	CD2-associated protein (CD2AP) overexpression accelerates amyloid precursor protein (APP) transfer from early endosomes to the lysosomal degradation pathway. <i>Journal of Biological Chemistry</i> , 2019, 294, 10886-10899.	1.6	28
49	Phosphorylation of Myristoylated Alanine-Rich C Kinase Substrate (MARCKS) by Proline-Directed Protein Kinases and Its Dephosphorylation. <i>Journal of Neurochemistry</i> , 2002, 65, 802-809.	2.1	27
50	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.	1.6	27
51	Tau isoform expression and phosphorylation in marmoset brains. <i>Journal of Biological Chemistry</i> , 2019, 294, 11433-11444.	1.6	27
52	Cytoplasmic control of Rab family small GTPases through BAG 6. <i>EMBO Reports</i> , 2019, 20, .	2.0	26
53	Apoptosis-associated tyrosine kinase is a Cdk5 activator p35 binding protein. <i>Biochemical and Biophysical Research Communications</i> , 2003, 310, 398-404.	1.0	25
54	Effect of Pin1 or Microtubule Binding on Dephosphorylation of FTDP-17 Mutant Tau. <i>Journal of Biological Chemistry</i> , 2009, 284, 16840-16847.	1.6	22

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55	Quantitative and combinatory determination of in situ phosphorylation of tau and its FTDP-17 mutants. <i>Scientific Reports</i> , 2016, 6, 33479.	1.6	21
56	The Abundance of Nonphosphorylated Tau in Mouse and Human Tauopathy Brains Revealed by the Use of Phos-Tag Method. <i>American Journal of Pathology</i> , 2016, 186, 398-409.	1.9	20
57	Palmitoylation-dependent endosomal localization of AATYK1A and its interaction with Src. <i>Genes To Cells</i> , 2008, 13, 949-964.	0.5	19
58	The LMTK1-TBC1D9B-Rab11A Cascade Regulates Dendritic Spine Formation via Endosome Trafficking. <i>Journal of Neuroscience</i> , 2019, 39, 9491-9502.	1.7	19
59	Phosphorylation of AATYK1 by Cdk5 Suppresses Its Tyrosine Phosphorylation. <i>PLoS ONE</i> , 2010, 5, e10260.	1.1	18
60	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.	0.5	17
61	AATYK1A phosphorylation by Cdk5 regulates the recycling endosome pathway. <i>Genes To Cells</i> , 2010, 15, 783-797.	0.5	17
62	Protein Kinase C η Regulates Cdk5/p25 Signaling during Myogenesis. <i>Molecular Biology of the Cell</i> , 2010, 21, 1423-1434.	0.9	17
63	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.	1.6	17
64	Distinct phosphorylation profiles of tau in brains of patients with different tauopathies. <i>Neurobiology of Aging</i> , 2021, 108, 72-79.	1.5	17
65	Neurofilaments of aged rats: The strengthened interneurofilament interaction and the reduced amount of NF-M. <i>Journal of Neuroscience Research</i> , 1999, 58, 337-348.	1.3	14
66	Regulation of membrane association and kinase activity of Cdk5-p35 by phosphorylation of p35. <i>Journal of Neuroscience Research</i> , 2007, 85, 3071-3078.	1.3	14
67	Cyclin-dependent kinase 5 phosphorylates and induces the degradation of ataxin-2. <i>Neuroscience Letters</i> , 2014, 563, 112-117.	1.0	14
68	Two Types of Apoptotic Cell Death of Rat Central Nervous System-Derived Neuroblastoma B50 and B104 Cells: Apoptosis Induced During Proliferation and After Differentiation. <i>Journal of Neurochemistry</i> , 2002, 67, 1856-1865.	2.1	11
69	Neuronal expression of two isoforms of mouse Septin 5. <i>Journal of Neuroscience Research</i> , 2010, 88, 1309-1316.	1.3	11
70	Dab1-mediated colocalization of multi-adaptor protein <sc><sc>CIN85</sc></sc> with Reelin receptors, <sc>A</sc>po<sc>ER</sc>2 and <sc>VLDLR</sc>, in neurons. <i>Genes To Cells</i> , 2013, 18, 410-424.	0.5	10
71	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.	1.6	10
72	Valproic acid downregulates Cdk5 activity via the transcription of the p35 mRNA. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 678-682.	1.0	8

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73	Kinase activity of endosomal kinase <sc>LMTK</sc>1A regulates its cellular localization and interactions with cytoskeletons. <i>Genes To Cells</i> , 2016, 21, 1080-1094.	0.5	8
74	LMTK1, a Novel Modulator of Endosomal Trafficking in Neurons. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 112.	1.4	8
75	The effect of Cyclin-dependent kinase 5 on voltage-dependent calcium channels in <sc>PC</sc>12 cells varies according to channel type and cell differentiation state. <i>Journal of Neurochemistry</i> , 2014, 130, 498-506.	2.1	7
76	Preferential targeting of p39-activated Cdk5 to Rac1-induced lamellipodia. <i>Molecular and Cellular Neurosciences</i> , 2014, 61, 34-45.	1.0	7
77	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.	1.5	6
78	Hyperactive and impulsive behaviors of LMTK1 knockout mice. <i>Scientific Reports</i> , 2020, 10, 15461.	1.6	6
79	Cdk5 Regulation of the GRAB-Mediated Rab8-Rab11 Cascade in Axon Outgrowth. <i>Journal of Neuroscience</i> , 2017, 37, 790-806.	1.7	6
80	Cdk5-induced neuronal cell death: The activation of the conventional Rb-E2F G₁ pathway in post-mitotic neurons. <i>Cell Cycle</i> , 2012, 11, 2049-2049.	1.3	5
81	In vivo analysis of the phosphorylation of tau and the tau protein kinases Cdk5-p35 and GSK3 β by using Phos-tag SDS-PAGE. <i>Journal of Proteomics</i> , 2022, 262, 104591.	1.2	5
82	Activation of ATPase activity of 14S dynein from <i>Tetrahymena</i> cilia by microtubules. <i>FEBS Journal</i> , 1992, 206, 911-917.	0.2	4
83	Cyclin-dependent kinase 5 promotes proteasomal degradation of the 5-HT1A receptor via phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2019, 510, 370-375.	1.0	4
84	Lemur tail kinase 1 (LMTK1) regulates the endosomal localization of β -secretase BACE1. <i>Journal of Biochemistry</i> , 2021, 170, 729-738.	0.9	4
85	The Kinase Activity of Cdk5 and Its Regulation. , 2008, , 171-190.		3
86	Novel axonal distribution of neurofilament-H phosphorylated at the glycogen synthase kinase 3 β -phosphorylation site in its E-segment. <i>Journal of Neuroscience Research</i> , 2009, 87, 3088-3097.	1.3	3
87	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.	0.9	3
88	Cdk5-mediated JIP1 phosphorylation regulates axonal outgrowth through Notch1 inhibition. <i>BMC Biology</i> , 2022, 20, 115.	1.7	3
89	Effects of p35 Mutations Associated with Mental Retardation on the Cellular Function of p35-CDK5. <i>PLoS ONE</i> , 2015, 10, e0140821.	1.1	2
90	Map7D2 and Map7D1 facilitate microtubule stabilization through distinct mechanisms in neuronal cells. <i>Life Science Alliance</i> , 2022, 5, e202201390.	1.3	2

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91	Cyclin-Dependent Kinase 5 (Cdk5): Preparation and Measurement of Kinase Activity. <i>Neuromethods</i> , 2012, , 87-103.	0.2	1
92	Valproic Acid-Induced Anxiety and Depression Behaviors are Ameliorated in p39 Cdk5 Activator-Deficient Mice. <i>Neurochemical Research</i> , 0, , .	1.6	1
93	6. Molecular mechanisms of neural stem cells differentiation. , 2019, , 127-144.		0
94	Quantitative analysis of in vivo phosphorylation of Cyclin-dependent kinase activator p35 by Phos-tag SDS-PAGE/immunoblotting. <i>Seibutsu Butsuri Kagaku</i> , 2012, 56, s9-s13.	0.1	0
95	Ultrastructure of Detergent-Resistant Cytoskeletons in the Noncortical Domain of Sea Urchin Eggs as Revealed by the Quick-Freeze Deep-Etch Technique.. <i>Cell Structure and Function</i> , 1992, 17, 277-285.	0.5	0
96	Phosphorylation analysis of tau in neurodegenerative diseases by Phos-tag SDS-PAGE. <i>Denki Eido</i> , 2015, 59, 73-75.	0.0	0