Akinori Nishi

List of Publications by Year
in descending order

57 papers	5,180 citations	136950 32 h-index	128289 60 g-index
63 all docs	63 docs citations	63 times ranked	5498 citing authors

#	Article	IF	Citations
1	DARPP-32: An Integrator of Neurotransmission. Annual Review of Pharmacology and Toxicology, 2004, 44, 269-296.	9.4	639
2	Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. Nature, 1999, 402, 669-671.	27.8	538
3	Effects of chronic exposure to cocaine are regulated by the neuronal protein Cdk5. Nature, 2001, 410, 376-380.	27.8	442
4	Bidirectional Regulation of DARPP-32 Phosphorylation by Dopamine. Journal of Neuroscience, 1997, 17, 8147-8155.	3.6	368
5	Distinct Roles of PDE4 and PDE10A in the Regulation of cAMP/PKA Signaling in the Striatum. Journal of Neuroscience, 2008, 28, 10460-10471.	3.6	257
6	Protein kinase A activates protein phosphatase 2A by phosphorylation of the B56Â subunit. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2979-2984.	7.1	244
7	A phosphatase cascade by which rewarding stimuli control nucleosomal response. Nature, 2008, 453, 879-884.	27.8	219
8	Cell typeâ€“specific regulation of DARPP-32 phosphorylation by psychostimulant and antipsychotic drugs. Nature Neuroscience, 2008, 11, 932-939.	14.8	205
9	Metabotropic mGlu5 receptors regulate adenosine A2A receptor signaling. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1322-1327.	7.1	135
10	Regulation of DARPP-32 dephosphorylation at PKA- and Cdk5-sites by NMDA and AMPA receptors: distinct roles of calcineurin and protein phosphatase-2A. Journal of Neurochemistry, 2002, 81, 832-841.	3.9	133
11	Glutamate regulation of DARPP-32 phosphorylation in neostriatal neurons involves activation of multiple signaling cascades. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1199-1204.	7.1	128
12	The role of DARPP-32 in the actions of drugs of abuse. Neuropharmacology, 2004, 47, 14-23.	4.1	117
13	Abnormal social behavior, hyperactivity, impaired remote spatial memory, and increased D1-mediated dopaminergic signaling in neuronal nitric oxide synthase knockout mice. Molecular Brain, 2009, 2, 19.	2.6	116
14	Memory Enhancement by Targeting Cdk5 Regulation of NR2B. Neuron, 2014, 81, 1070-1083.	8.1	116
15	Mechanisms for the Modulation of Dopamine D1 Receptor Signaling in Striatal Neurons. Frontiers in Neuroanatomy, 2011, 5, 43.	1.7	115
16	Role of Calcineurin and Protein Phosphatase-2A in the Regulation of DARPP-32 Dephosphorylation in Neostriatal Neurons. Journal of Neurochemistry, 2008, 72, 2015-2021.	3.9	108
17	The B''/PR72 subunit mediates Ca2+-dependent dephosphorylation of DARPP-32 by protein phosphatase 2A. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9876-9881.	7.1	99
18	Phosphoproteomics of the Dopamine Pathway Enables Discovery of Rap1 Activation as a Reward Signal InÂVivo. Neuron, 2016, 89, 550-565.	8.1	81

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19	The role of ventral striatal cAMP signaling in stress-induced behaviors. Nature Neuroscience, 2015, 18, 1094-1100.	14.8	80
20	Differential regulation of dopamine D1 and D2 signaling by nicotine in neostriatal neurons. Journal of Neurochemistry, 2004, 90, 1094-1103.	3.9	68
21	Advanced Research on Dopamine Signaling to Develop Drugs for the Treatment of Mental Disorders: Biochemical and Behavioral Profiles of Phosphodiesterase Inhibition in Dopaminergic Neurotransmission. Journal of Pharmacological Sciences, 2010, 114, 6-16.	2.5	64
22	PKA-Dependent Phosphorylation of Ribosomal Protein S6 Does Not Correlate with Translation Efficiency in Striatonigral and Striatopallidal Medium-Sized Spiny Neurons. Journal of Neuroscience, 2015, 35, 4113-4130.	3.6	61
23	Effect of methylphenidate on dopamine/DARPP signalling in adult, but not young, mice. Journal of Neurochemistry, 2003, 87, 1391-1401.	3.9	54
24	Phosphodiesterase 4 inhibition enhances the dopamine D1 receptor/PKA/DARPP-32 signaling cascade in frontal cortex. Psychopharmacology, 2012, 219, 1065-1079.	3.1	52
25	Identification of tyrosine hydroxylase as a physiological substrate for Cdk5. Journal of Neurochemistry, 2004, 91, 374-384.	3.9	50
26	Role of adrenoceptors in the regulation of dopamine/DARPPâ€32 signaling in neostriatal neurons. Journal of Neurochemistry, 2010, 113, 1046-1059.	3.9	50
27	Food reward-sensitive interaction of ghrelin and opioid receptor pathways in mesolimbic dopamine system. Neuropharmacology, 2013, 67, 395-402.	4.1	50
28	Striosome-based map of the mouse striatum that is conformable to both cortical afferent topography and uneven distributions of dopamine D1 and D2 receptor-expressing cells. Brain Structure and Function, 2018, 223, 4275-4291.	2.3	47
29	Obligatory roles of dopamine D1 receptors in the dentate gyrus in antidepressant actions of a selective serotonin reuptake inhibitor, fluoxetine. Molecular Psychiatry, 2020, 25, 1229-1244.	7.9	46
30	Phosphodiesterase Inhibition and Regulation of Dopaminergic Frontal and Striatal Functioning: Clinical Implications. International Journal of Neuropsychopharmacology, 2016, 19, pyw030.	2.1	37
31	Reversal of methamphetamine-induced behavioral sensitization by repeated administration of a dopamine D1 receptor agonist. Neuropharmacology, 2006, 50, 991-997.	4.1	36
32	Nicotine Regulates DARPP-32 (Dopamine- and cAMP-Regulated Phosphoprotein of 32 kDa) Phosphorylation at Multiple Sites in Neostriatal Neurons. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 872-878.	2.5	35
33	The spontaneously hypertensive rat/Izm (SHR/Izm) shows attention deficit/hyperactivity disorder-like behaviors but without impulsive behavior: Therapeutic implications of low-dose methylphenidate. Behavioural Brain Research, 2014, 274, 235-242.	2.2	34
34	Chronic Fluoxetine Induces the Enlargement of Perforant Path-Granule Cell Synapses in the Mouse Dentate Gyrus. PLoS ONE, 2016, 11, e0147307.	2.5	31
35	Potential for targeting dopamine/DARPP-32 signaling in neuropsychiatric and neurodegenerative disorders. Expert Opinion on Therapeutic Targets, 2017, 21, 259-272.	3.4	30
36	Upregulation of the dorsal raphe nucleus-prefrontal cortex serotonin system by chronic treatment with escitalopram in hyposerotonergic Wistar-Kyoto rats. Neuropharmacology, 2013, 72, 169-178.	4.1	25

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37	Protein kinase A directly phosphorylates metabotropic glutamate receptor 5 to modulate its function. Journal of Neurochemistry, 2015, 132, 677-686.	3.9	24
38	Glutamate Counteracts Dopamine/PKA Signaling via Dephosphorylation of DARPP-32 Ser-97 and Alteration of Its Cytonuclear Distribution. Journal of Biological Chemistry, 2017, 292, 1462-1476.	3.4	23
39	Regulation of DARPPâ€32 phosphorylation by three distinct dopamine D₁â€like receptor signaling pathways in the neostriatum. Journal of Neurochemistry, 2008, 107, 1014-1026.	3.9	21
40	Repeated administration of a dopamine D1 receptor agonist reverses the increased proportions of striatal dopamine D1^{High} and D2^{High} receptors in methamphetamineâ€sensitized rats. European Journal of Neuroscience, 2008, 27, 2551-2557.	2.6	21
41	Neuroprotection by Endoplasmic Reticulum Stress-Induced HRD1 and Chaperones: Possible Therapeutic Targets for Alzheimerâ€™s and Parkinsonâ€™s Disease. Medical Sciences (Basel, Switzerland), 2016, 4, 14.	2.9	21
42	Muscarinic receptors acting at pre- and post-synaptic sites differentially regulate dopamine/DARPP-32 signaling in striatonigral and striatopallidal neurons. Neuropharmacology, 2012, 63, 1248-1257.	4.1	18
43	Acute effects of resveratrol to enhance cocaine-induced dopamine neurotransmission in the striatum. Neuroscience Letters, 2013, 542, 107-112.	2.1	17
44	p11 in Cholinergic Interneurons of the Nucleus Accumbens Is Essential for Dopamine Responses to Rewarding Stimuli. ENeuro, 2018, 5, ENEURO.0332-18.2018.	1.9	17
45	Neuronal circuits and physiological roles of the basal ganglia in terms of transmitters, receptors and related disorders. Journal of Physiological Sciences, 2016, 66, 435-446.	2.1	16
46	Regulation of DARPP-32 Thr75 phosphorylation by neurotensin in neostriatal neurons: involvement of glutamate signalling. European Journal of Neuroscience, 2003, 18, 1247-1253.	2.6	15
47	Neurotensin regulates DARPP-32 Thr34 phosphorylation in neostriatal neurons by activation of dopamine D1-type receptors. Journal of Neurochemistry, 2002, 81, 325-334.	3.9	14
48	Regulation of spinophilin Ser94 phosphorylation in neostriatal neurons involves both DARPP-32-dependent and independent pathways. Journal of Neurochemistry, 2005, 95, 1642-1652.	3.9	9
49	Long-Term Citalopram Treatment Alters the Stress Responses of the Cortical Dopamine and Noradrenaline Systems: the Role of Cortical 5-HT_{1A}Receptors. International Journal of Neuropsychopharmacology, 2016, 19, pyw026.	2.1	9
50	Voluntary exercise is motivated by ghrelin, possibly related to the central reward circuit. Journal of Endocrinology, 2020, 244, 123-132.	2.6	8
51	Adolescent psychosocial stress enhances sensitization to cocaine exposure in genetically vulnerable mice. Neuroscience Research, 2020, 151, 38-45.	1.9	7
52	Distinct Role of Dopamine in the PFC and NAc During Exposure to Cocaine-Associated Cues. International Journal of Neuropsychopharmacology, 2021, 24, 988-1001.	2.1	7
53	Possible involvement of endoplasmic reticulum stress in the pathogenesis of Alzheimerâ€™s disease. Endoplasmic Reticulum Stress in Diseases, 2015, 2, .	0.2	5
54	Differential regulation of the Cdk5-dependent phosphorylation sites of inhibitor-1 and DARPP-32 by depolarization. Journal of Neurochemistry, 2007, 103, 1582-1593.	3.9	4

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55	Sex Differences in Dendritic Spine Formation in the Hippocampus and Animal Behaviors in a Mouse Model of Hyperthyroidism. Frontiers in Cellular Neuroscience, 2020, 14, 268.	3.7	3
56	Subregion-Specific Regulation of Dopamine D1 Receptor Signaling in the Striatum: Implication for L-DOPA-Induced Dyskinesia. Journal of Neuroscience, 2021, 41, 6388-6414.	3.6	2
57	Dopamine D1 receptorâ€expressing neurons activity is essential for locomotor and sensitizing effects of a single injection of cocaine. European Journal of Neuroscience, 2021, 54, 5327-5340.	2.6	2