Angus C. Nairn

List of Publications by Year
in descending order

240 papers	24,973 citations	4942 84 h-index	7931 149 g-index
243 all docs	243 docs citations	243 times ranked	22786 citing authors

#	Article	IF	Citations
1	Regulation of NMDA receptor trafficking by amyloid-Î². Nature Neuroscience, 2005, 8, 1051-1058.	7.1	1,417
2	Beyond the Dopamine Receptor. Neuron, 1999, 23, 435-447.	3.8	722
3	DARPP-32: An Integrator of Neurotransmission. Annual Review of Pharmacology and Toxicology, 2004, 44, 269-296.	4.2	639
4	Identification of the Ca2+-dependent modulator protein as the fourth subunit of rabbit skeletal muscle phosphorylase kinase. FEBS Letters, 1978, 92, 287-293.	1.3	620
5	From The Cover: Regulation of a protein phosphatase cascade allows convergent dopamine and glutamate signals to activate ERK in the striatum. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 491-496.	3.3	558
6	PKC-Î± regulates cardiac contractility and propensity toward heart failure. Nature Medicine, 2004, 10, 248-254.	15.2	551
7	Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. Nature, 1999, 402, 669-671.	13.7	538
8	Effects of chronic exposure to cocaine are regulated by the neuronal protein Cdk5. Nature, 2001, 410, 376-380.	13.7	442
9	CaM kinase IÎ±â€“induced phosphorylation of Drp1 regulates mitochondrial morphology. Journal of Cell Biology, 2008, 182, 573-585.	2.3	397
10	CFTR channel opening by ATP-driven tight dimerization of its nucleotide-binding domains. Nature, 2005, 433, 876-880.	13.7	385
11	Rapamycin selectively inhibits translation of mRNAs encoding elongation factors and ribosomal proteins.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 11477-11481.	3.3	338
12	NMDA receptor-mediated control of protein synthesis at developing synapses. Nature Neuroscience, 2000, 3, 211-216.	7.1	338
13	Structural Basis for the Autoinhibition of Calcium/Calmodulin-Dependent Protein Kinase I. Cell, 1996, 84, 875-887.	13.5	327
14	Cocaine-induced dendritic spine formation in D1 and D2 dopamine receptor-containing medium spiny neurons in nucleus accumbens. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3399-3404.	3.3	312
15	NMDA-mediated activation of the tyrosine phosphatase STEP regulates the duration of ERK signaling. Nature Neuroscience, 2003, 6, 34-42.	7.1	294
16	Structure of the Autoinhibited Kinase Domain of CaMKII and SAXS Analysis of the Holoenzyme. Cell, 2005, 123, 849-860.	13.5	293
17	Phosphorylation of WAVE1 regulates actin polymerization and dendritic spine morphology. Nature, 2006, 442, 814-817.	13.7	289
18	Protein phosphatase 1 modulation of neostriatal AMPA channels: regulation by DARPPâ€“32 and spinophilin. Nature Neuroscience, 1999, 2, 13-17.	7.1	280

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19	Microinjection of catalytic subunit of cyclic AMP-dependent protein kinase enhances calcium action potentials of bag cell neurons in cell culture. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 7487-7491.	3.3	278
20	Regulation of the gating of cystic fibrosis transmembrane conductance regulator C1 channels by phosphorylation and ATP hydrolysis.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 4698-4702.	3.3	276
21	Severe deficiencies in dopamine signaling in presymptomatic Huntington's disease mice. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6809-6814.	3.3	263
22	The Role of Calmodulin in the Structure and Regulation of Phosphorylase Kinase from Rabbit Skeletal Muscle. FEBS Journal, 1979, 100, 329-337.	0.2	259
23	Crystal Structure of the Atypical Protein Kinase Domain of a TRP Channel with Phosphotransferase Activity. Molecular Cell, 2001, 7, 1047-1057.	4.5	248
24	Cocaine Regulates MEF2 to Control Synaptic and Behavioral Plasticity. Neuron, 2008, 59, 621-633.	3.8	246
25	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.	3.3	244
26	Coupling of CFTR Clâˆ' channel gating to an ATP hydrolysis cycle. Neuron, 1994, 12, 473-482.	3.8	220
27	A phosphatase cascade by which rewarding stimuli control nucleosomal response. Nature, 2008, 453, 879-884.	13.7	219
28	Amplification of dopaminergic signaling by a positive feedback loop. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 12840-12845.	3.3	218
29	PP1-mediated dephosphorylation of phosphoproteins at mitotic exit is controlled by inhibitor-1 and PP1 phosphorylation. Nature Cell Biology, 2009, 11, 644-651.	4.6	218
30	Neuron-Specific Phosphorylation of Alzheimer's Î²-Amyloid Precursor Protein by Cyclin-Dependent Kinase 5. Journal of Neurochemistry, 2002, 75, 1085-1091.	2.1	212
31	Cell cycle-dependent phosphorylation of mammalian protein phosphatase 1 by cdc2 kinase. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2168-2173.	3.3	198
32	AÎ²-Mediated NMDA Receptor Endocytosis in Alzheimer's Disease Involves Ubiquitination of the Tyrosine Phosphatase STEP₆₁. Journal of Neuroscience, 2010, 30, 5948-5957.	1.7	198
33	Structural basis for protein phosphatase 1 regulation and specificity. FEBS Journal, 2013, 280, 596-611.	2.2	195
34	Role for the PP2A/B56Î´ Phosphatase in Regulating 14-3-3 Release from Cdc25 to Control Mitosis. Cell, 2006, 127, 759-773.	13.5	183
35	On the Mechanism of MgATP-dependent Gating of CFTR Clâˆ' Channels. Journal of General Physiology, 2003, 121, 17-36.	0.9	182
36	Spinophilin directs protein phosphatase 1 specificity by blocking substrate binding sites. Nature Structural and Molecular Biology, 2010, 17, 459-464.	3.6	181

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37	Genetic reduction of striatal-enriched tyrosine phosphatase (STEP) reverses cognitive and cellular deficits in an Alzheimerâ€™s disease mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19014-19019.	3.3	179
38	Involvement of DARPP-32 phosphorylation in the stimulant action of caffeine. Nature, 2002, 418, 774-778.	13.7	174
39	Regulation of synaptojanin 1 by cyclin-dependent kinase 5 at synapses. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 546-551.	3.3	172
40	Phosphorylation of connexin 32, a hepatocyte gap-junction protein, by cAMP-dependent protein kinase, protein kinase C and Ca2+ /calmodulin-dependent protein kinase II. FEBS Journal, 1990, 192, 263-273.	0.2	171
41	In vivo phosphorylation of CFTR promotes formation of a nucleotide-binding domain heterodimer. EMBO Journal, 2006, 25, 4728-4739.	3.5	171
42	Channel Function Is Dissociated from the Intrinsic Kinase Activity and Autophosphorylation of TRPM7/ChaK1. Journal of Biological Chemistry, 2005, 280, 20793-20803.	1.6	168
43	FGF acts as a co-transmitter through adenosine A2A receptor to regulate synaptic plasticity. Nature Neuroscience, 2008, 11, 1402-1409.	7.1	167
44	Crystal Structure of a Tetradecameric Assembly of the Association Domain of Ca2+/Calmodulin-Dependent Kinase II. Molecular Cell, 2003, 11, 1241-1251.	4.5	164
45	Regulation of Alzheimer's disease amyloid-beta formation by casein kinase I. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4159-4164.	3.3	164
46	Regulation of protein phosphatase-1. Chemistry and Biology, 2000, 7, R13-R23.	6.2	161
47	Actions of Genistein on Cystic Fibrosis Transmembrane Conductance Regulator Channel Gating. Journal of General Physiology, 1998, 111, 477-490.	0.9	156
48	cGMP-dependent protein kinase enhances Ca2+ current and potentiates the serotonin-induced Ca2+ current increase in snail neurones. Nature, 1986, 323, 812-814.	13.7	155
49	The DARPP-32/protein phosphatase-1 cascade: a model for signal integration1Published on the World Wide Web on 22 January 1998.1. Brain Research Reviews, 1998, 26, 274-284.	9.1	152
50	DARPP-32 mediates the actions of multiple drugs of abuse. AAPS Journal, 2005, 7, E353-E360.	2.2	152
51	Ca2+/calmodulin-dependent kinase II mediates simultaneous enhancement of gap-junctional conductance and glutamatergic transmission. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13272-13277.	3.3	146
52	Phosphorylation of Connexin43 and the Regulation of Neonatal Rat Cardiac Myocyte Gap Junctions. Journal of Molecular and Cellular Cardiology, 1997, 29, 2131-2145.	0.9	144
53	Prolonged Nonhydrolytic Interaction of Nucleotide with CFTR's NH2-terminal Nucleotide Binding Domain and its Role in Channel Gating. Journal of General Physiology, 2003, 122, 333-348.	0.9	139
54	Isolation and Characterization of PNUTS, a Putative Protein Phosphatase 1 Nuclear Targeting Subunit. Journal of Biological Chemistry, 1998, 273, 4089-4095.	1.6	138

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55	A multiregional proteomic survey of the postnatal human brain. Nature Neuroscience, 2017, 20, 1787-1795.	7.1	138
56	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.	3.3	135
57	Structural Domains Involved in the Regulation of Transmitter Release by Synapsins. Journal of Neuroscience, 2005, 25, 2658-2669.	1.7	134
58	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.	2.1	133
59	The Rho-Specific GEF Lfc Interacts with Neurabin and Spinophilin to Regulate Dendritic Spine Morphology. Neuron, 2005, 47, 85-100.	3.8	132
60	Isotype-specific Activation of Cystic Fibrosis Transmembrane Conductance Regulator-Chloride Channels by cGMP-dependent Protein Kinase II. Journal of Biological Chemistry, 1995, 270, 26626-26631.	1.6	129
61	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.	3.3	128
62	Regulation of cyclin-dependent kinase 5 and casein kinase 1 by metabotropic glutamate receptors. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11062-11068.	3.3	121
63	Inhibitor of the Tyrosine Phosphatase STEP Reverses Cognitive Deficits in a Mouse Model of Alzheimer's Disease. PLoS Biology, 2014, 12, e1001923.	2.6	119
64	Characterization of the interaction between DARPP-32 and protein phosphatase 1 (PP-1): DARPP-32 peptides antagonize the interaction of PP-1 with binding proteins. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3536-3541.	3.3	118
65	Characterization of the Inhibition of Protein Phosphatase-1 by DARPP-32 and Inhibitor-2. Journal of Biological Chemistry, 1999, 274, 7870-7878.	1.6	118
66	Severed Channels Probe Regulation of Gating of Cystic Fibrosis Transmembrane Conductance Regulator by Its Cytoplasmic Domains. Journal of General Physiology, 2000, 116, 477-500.	0.9	117
67	The role of DARPP-32 in the actions of drugs of abuse. Neuropharmacology, 2004, 47, 14-23.	2.0	117
68	Charge Screening by Internal pH and Polyvalent Cations as a Mechanism for Activation, Inhibition, and Rundown of TRPM7/MIC Channels. Journal of General Physiology, 2005, 126, 499-514.	0.9	117
69	Synaptic plasticity: one STEP at a time. Trends in Neurosciences, 2006, 29, 452-458.	4.2	116
70	Allosteric changes of the NMDA receptor trap diffusible dopamine 1 receptors in spines. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 762-767.	3.3	115
71	Understanding the antagonism of retinoblastoma protein dephosphorylation by PNUTS provides insights into the PP1 regulatory code. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4097-4102.	3.3	112
72	cAMP-PKA phosphorylation of tau confers risk for degeneration in aging association cortex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5036-5041.	3.3	110

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73	Role of Calcineurin and Protein Phosphatase-2A in the Regulation of DARPP-32 Dephosphorylation in Neostriatal Neurons. Journal of Neurochemistry, 2008, 72, 2015-2021.	2.1	108
74	Methylphenidate-induced dendritic spine formation and Î"FosB expression in nucleus accumbens. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2915-2920.	3.3	107
75	The Carboxyl-Terminus of BACE Contains a Sorting Signal That Regulates BACE Trafficking but Not the Formation of Total Aβ. Molecular and Cellular Neurosciences, 2002, 19, 175-185.	1.0	106
76	Regulation of the interaction between PIPKIγ and talin by proline-directed protein kinases. Journal of Cell Biology, 2005, 168, 789-799.	2.3	106
77	Changes in the phosphorylation of initiation factor eIF-2α, elongation factor eEF-2 and p70 S6 kinase after transient focal cerebral ischaemia in mice. Journal of Neurochemistry, 2001, 78, 779-787.	2.1	100
78	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.	3.3	99
79	WAVE1 controls neuronal activity-induced mitochondrial distribution in dendritic spines. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3112-3116.	3.3	99
80	Cholecystokinin induces a decrease in Ca2+ current in snail neurons that appears to be mediated by protein kinase C. Nature, 1987, 325, 809-811.	13.7	96
81	A Novel cAMP-Stimulated Pathway in Protein Phosphatase 2A Activation. Journal of Pharmacology and Experimental Therapeutics, 2002, 302, 111-118.	1.3	94
82	A Network of Control Mediated by Regulator of Calcium/Calmodulin-Dependent Signaling. Science, 2004, 306, 698-701.	6.0	92
83	Oligomerization states of the association domain and the holoenyzme of Ca2+/CaM kinase II. FEBS Journal, 2006, 273, 682-694.	2.2	92
84	Regulation of CFTR channel gating. Trends in Biochemical Sciences, 1994, 19, 513-518.	3.7	90
85	Dual regulation of translation initiation and peptide chain elongation during BDNF-induced LTP in vivo: evidence for compartment-specific translation control. Journal of Neurochemistry, 2006, 99, 1328-1337.	2.1	90
86	Phosphorylation of DARPP-32 at Threonine-34 is Required for Cocaine Action. Neuropsychopharmacology, 2006, 31, 555-562.	2.8	90
87	Assessment of cognitive function in the heterozygous reeler mouse. Psychopharmacology, 2006, 189, 95-104.	1.5	88
88	Cyclic Nucleotide-Dependent Protein Kinases and Some Major Substrates in the Rat Cerebellum After Neonatal X-Irradiation. Journal of Neurochemistry, 1983, 40, 577-581.	2.1	87
89	Increased activity of cyclin-dependent kinase 5 leads to attenuation of cocaine-mediated dopamine signaling. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 1737-1742.	3.3	81
90	A molecular switch for translational control in taste memory consolidation. European Journal of Neuroscience, 2005, 22, 2560-2568.	1.2	80

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91	Mechanism of Regulation of Casein Kinase I Activity by Group I Metabotropic Glutamate Receptors. Journal of Biological Chemistry, 2002, 277, 45393-45399.	1.6	79
92	cAMP-stimulated Protein Phosphatase 2A Activity Associated with Muscle A Kinase-anchoring Protein (mAKAP) Signaling Complexes Inhibits the Phosphorylation and Activity of the cAMP-specific Phosphodiesterase PDE4D3. Journal of Biological Chemistry, 2010, 285, 11078-11086.	1.6	78
93	Site-directed mutagenesis of amino acid residues of protein phosphatase 1 involved in catalysis and inhibitor binding. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3530-3535.	3.3	77
94	Phosphorylation of Spinophilin Modulates Its Interaction with Actin Filaments. Journal of Biological Chemistry, 2003, 278, 1186-1194.	1.6	77
95	Molecular identification of human G-substrate, a possible downstream component of the cGMP-dependent protein kinase cascade in cerebellar Purkinje cells. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 2467-2472.	3.3	76
96	Characterization of the Mechanism of Regulation of Ca2+/ Calmodulin-dependent Protein Kinase I by Calmodulin and by Ca2+/Calmodulin-dependent Protein Kinase Kinase. Journal of Biological Chemistry, 1998, 273, 21473-21481.	1.6	75
97	Inhibition of the Ca2+/Calmodulin-dependent Protein Kinase I Cascade by cAMP-dependent Protein Kinase. Journal of Biological Chemistry, 1999, 274, 10086-10093.	1.6	75
98	Beyond the dopamine receptor: regulation and roles of serine/threonine protein phosphatases. Frontiers in Neuroanatomy, 2011, 5, 50.	0.9	73
99	Severed Molecules Functionally Define the Boundaries of the Cystic Fibrosis Transmembrane Conductance Regulator's Nh2-Terminal Nucleotide Binding Domain. Journal of General Physiology, 2000, 116, 163-180.	0.9	73
100	Phosphorylation of DARPP-32, a Dopamine- and cAMP-regulated Phosphoprotein, by Casein Kinase I in Vitro and in Vivo. Journal of Biological Chemistry, 1995, 270, 8772-8778.	1.6	70
101	Adenylyl cyclase-dependent form of chemical long-term potentiation triggers translational regulation at the elongation step. Neuroscience, 2003, 116, 743-752.	1.1	70
102	Wnt-5a-induced Phosphorylation of DARPP-32 Inhibits Breast Cancer Cell Migration in a CREB-dependent Manner. Journal of Biological Chemistry, 2009, 284, 27533-27543.	1.6	70
103	Phosphorylation by protein kinase C of serine-23 of the alpha-1 subunit of rat Na+,K(+)-ATPase affects its conformational equilibrium.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9132-9137.	3.3	69
104	Regulation of Na+, K+ -ATPase Isoforms in Rat Neostriatum by Dopamine and Protein Kinase C. Journal of Neurochemistry, 2002, 73, 1492-1501.	2.1	69
105	Differential regulation of dopamine D1 and D2 signaling by nicotine in neostriatal neurons. Journal of Neurochemistry, 2004, 90, 1094-1103.	2.1	68
106	Protein phosphatase 1 regulation by inhibitors and targeting subunits. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3080-3085.	3.3	67
107	Protein phosphatase 2C binds selectively to and dephosphorylates metabotropic glutamate receptor 3. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 16006-16011.	3.3	67
108	A molecular characterization of the choroid plexus and stress-induced gene regulation. Translational Psychiatry, 2012, 2, e139-e139.	2.4	67

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109	PNUTS, a Protein Phosphatase 1 (PP1) Nuclear Targeting Subunit. Journal of Biological Chemistry, 2003, 278, 13819-13828.	1.6	66
110	Preferential Phosphorylation of R-domain Serine 768 Dampens Activation of CFTR Channels by PKA. Journal of General Physiology, 2005, 125, 171-186.	0.9	66
111	[Ca2+]idetermines the effects of protein kinases A and C on activity of rat renal Na+,K+-ATPase. Journal of Physiology, 1999, 518, 37-46.	1.3	65
112	Discovery of Protein Phosphatase 2C Inhibitors by Virtual Screening. Journal of Medicinal Chemistry, 2006, 49, 1658-1667.	2.9	65
113	A Calcium- and Calmodulin-Dependent Kinase IÂ/Microtubule Affinity Regulating Kinase 2 Signaling Cascade Mediates Calcium-Dependent Neurite Outgrowth. Journal of Neuroscience, 2007, 27, 4413-4423.	1.7	64
114	The Regulatory Region of Calcium/Calmodulin-dependent Protein Kinase I Contains Closely Associated Autoinhibitory and Calmodulin-binding Domains. Journal of Biological Chemistry, 1995, 270, 23851-23859.	1.6	63
115	Mechanism of Inhibition of Protein Phosphatase 1 by DARPP-32: Studies with Recombinant DARPP-32 and Synthetic Peptides. Biochemical and Biophysical Research Communications, 1995, 206, 652-658.	1.0	63
116	Regulation of AMPA receptor dephosphorylation by glutamate receptor agonists. Neuropharmacology, 2003, 45, 703-713.	2.0	62
117	D1 receptor modulation of memory retrieval performance is associated with changes in pCREB and pDARPP-32 in rat prefrontal cortex. Behavioural Brain Research, 2006, 171, 127-133.	1.2	62
118	Phosphorylation of Rap1GAP, a striatally enriched protein, by protein kinase A controls Rap1 activity and dendritic spine morphology. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3531-3536.	3.3	60
119	Synaptic NMDA receptor stimulation activates PP1 by inhibiting its phosphorylation by Cdk5. Journal of Cell Biology, 2013, 203, 521-535.	2.3	58
120	Mutation of the Protein Kinase C Phosphorylation Site on Rat Î±1 Na+,K+-ATPase Alters Regulation of Intracellular Na+ and pH and Influences Cell Shape and Adhesiveness. Journal of Biological Chemistry, 1997, 272, 20179-20184.	1.6	56
121	Spinophilin is phosphorylated by Ca2+/calmodulin-dependent protein kinase II resulting in regulation of its binding to F-actin. Journal of Neurochemistry, 2004, 90, 317-324.	2.1	56
122	Nerve growth factor controls GAP-43 mRNA stability via the phosphoprotein ARPP-19. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12427-12431.	3.3	55
123	Functional Roles of Nonconserved Structural Segments in CFTR's NH2-terminal Nucleotide Binding Domain. Journal of General Physiology, 2005, 125, 43-55.	0.9	55
124	Thermodynamics of CFTR Channel Gating: A Spreading Conformational Change Initiates an Irreversible Gating Cycle. Journal of General Physiology, 2006, 128, 523-533.	0.9	54
125	Cellular Mechanisms Regulating Protein Phosphatase-1. Journal of Biological Chemistry, 2000, 275, 18670-18675.	1.6	53
126	The Regulation of Glycogen Synthase by Protein Phosphatase 1 in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 1997, 272, 29698-29703.	1.6	52

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127	Phosphorylation of DARPP-32 regulates breast cancer cell migration downstream of the receptor tyrosine kinase DDR1. Experimental Cell Research, 2006, 312, 4011-4018.	1.2	52
128	Functional Genomic and Proteomic Analysis Reveals Disruption of Myelin-Related Genes and Translation in a Mouse Model of Early Life Neglect. Frontiers in Psychiatry, 2011, 2, 18.	1.3	52
129	Phosphodiesterase 4 inhibition enhances the dopamine D1 receptor/PKA/DARPP-32 signaling cascade in frontal cortex. Psychopharmacology, 2012, 219, 1065-1079.	1.5	52
130	STEP ₆₁ is a substrate of the E3 ligase parkin and is upregulated in Parkinsonâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1202-1207.	3.3	52
131	Cocaine Self-Administration in Mice Is Inversely Related to Phosphorylation at Thr34 (Protein Kinase A) Tj ETQq1 1 0.784314 rgBT /Overl	1.7	51
132	Orbitofrontal Cortex and Cognitiveâ€Motivational Impairments in Psychostimulant Addiction. Annals of the New York Academy of Sciences, 2007, 1121, 610-638.	1.8	51
133	Differential effects of cocaine on histone posttranslational modifications in identified populations of striatal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9511-9516.	3.3	51
134	A molecular modeling analysis of the binding interactions between the okadaic acid class of natural product inhibitors and the ser-thr phosphatases, PP1 and PP2A. Bioorganic and Medicinal Chemistry, 1997, 5, 1751-1773.	1.4	50
135	Striatal dysregulation of Cdk5 alters locomotor responses to cocaine, motor learning, and dendritic morphology. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18561-18566.	3.3	49
136	Reduced levels of the tyrosine phosphatase STEP block beta amyloidâ€mediated GluA1/GluA2 receptor internalization. Journal of Neurochemistry, 2011, 119, 664-672.	2.1	49
137	Phosphorylation of spinophilin by ERK and cyclin-dependent PK 5 (Cdk5). Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3489-3494.	3.3	48
138	Forebrain overexpression of CK1Î´ leads to down-regulation of dopamine receptors and altered locomotor activity reminiscent of ADHD. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4401-4406.	3.3	48
139	Amyloid Î² Peptide Formation in Cell-free Preparations. Journal of Biological Chemistry, 1996, 271, 24670-24674.	1.6	47
140	Immunocytochemical localization of phosphatase inhibitor-1 in rat brain. Journal of Comparative Neurology, 1991, 310, 170-188.	0.9	46
141	Phosphoproteomic Analysis Reveals a Novel Mechanism of CaMKIIÂ Regulation Inversely Induced by Cocaine Memory Extinction versus Reconsolidation. Journal of Neuroscience, 2016, 36, 7613-7627.	1.7	46
142	Alzheimerâ€™s-like pathology in aging rhesus macaques: Unique opportunity to study the etiology and treatment of Alzheimerâ€™s disease. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26230-26238.	3.3	46
143	A Role for Calcineurin (Protein Phosphatase-2B) in the Regulation of Glutamate Release. Biochemical and Biophysical Research Communications, 1995, 212, 609-616.	1.0	45
144	A 127-kDa Protein (UV-DDB) Binds to the Cytoplasmic Domain of the Alzheimer's Amyloid Precursor Protein. Journal of Neurochemistry, 1999, 72, 549-556.	2.1	45

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145	A Direct Test of the Reductionist Approach to Structural Studies of Calmodulin Activity. Journal of Biological Chemistry, 2002, 277, 16351-16354.	1.6	43
146	The design, synthesis, and biological evaluation of analogues of the serine-threonine protein phosphatase 1 and 2A selective inhibitor microcystin LA: rational modifications imparting PP1 selectivity. Bioorganic and Medicinal Chemistry, 1999, 7, 543-564.	1.4	42
147	Modulation of GT-1 DNA-binding activity by calcium-dependent phosphorylation. Plant Molecular Biology, 1999, 40, 373-386.	2.0	42
148	The Histamine H3 Receptor Differentially Modulates Mitogen-activated Protein Kinase (MAPK) and Akt Signaling in Striatonigral and Striatopallidal Neurons. Journal of Biological Chemistry, 2016, 291, 21042-21052.	1.6	42
149	Elevated glucose activates protein synthesis in cultured cardiac myocytes. Metabolism: Clinical and Experimental, 2005, 54, 1453-1460.	1.5	40
150	Proteomic Analysis of Activity-Dependent Synaptic Plasticity in Hippocampal Neurons. Journal of Proteome Research, 2007, 6, 3203-3215.	1.8	40
151	Developmental expression of MARCKS and protein kinase C in mice in relation to the exencephaly resulting from MARCKS deficiency. Developmental Brain Research, 1996, 96, 62-75.	2.1	39
152	The Actin-Binding Domain of Spinophilin is Necessary and Sufficient for Targeting to Dendritic Spines. NeuroMolecular Medicine, 2002, 2, 61-70.	1.8	38
153	Activation of a Calcium-Calmodulin-dependent Protein Kinase I Cascade in PC12 Cells. Journal of Biological Chemistry, 1996, 271, 20930-20934.	1.6	37
154	Drugs of abuse modulate the phosphorylation of ARPP-21, a cyclic AMP-regulated phosphoprotein enriched in the basal ganglia. Neuropharmacology, 2000, 39, 1637-1644.	2.0	36
155	Restoration of Protein Synthesis in Heart and Skeletal Muscle After Withdrawal of Alcohol. Alcoholism: Clinical and Experimental Research, 2004, 28, 517-525.	1.4	36
156	Evidence for the Involvement of Lfc and Tctex-1 in Axon Formation. Journal of Neuroscience, 2010, 30, 6793-6800.	1.7	36
157	Inhibition of protein synthesis in cortical neurons during exposure to hydrogen peroxide. Journal of Neurochemistry, 2001, 76, 1080-1088.	2.1	35
158	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.	1.3	35
159	Dopamine-Dependent Tuning of Striatal Inhibitory Synaptogenesis. Journal of Neuroscience, 2010, 30, 2935-2950.	1.7	35
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