# Angus C. Nairn

## List of Publications by Citations



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| 238 papers | 21,853 citations | 81 h-index | 141 g-index |
| 243 ext. papers | 23,660 ext. citations | 9.6 avg, IF | 6.34 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 238 | Regulation of NMDA receptor trafficking by amyloid-beta. *Nature Neuroscience*, **2005**, 8, 1051-8 | 25.5 | 1238 |
| 237 | Beyond the dopamine receptor: the DARPP-32/protein phosphatase-1 cascade. *Neuron*, **1999**, 23, 435-47 | 13.9 | 658 |
| 236 | DARPP-32: an integrator of neurotransmission. *Annual Review of Pharmacology and Toxicology*, **2004**, 44, 269-96 | 17.9 | 551 |
| 235 | Identification of the Ca2+-dependent modulator protein as the fourth subunit of rabbit skeletal muscle phosphorylase kinase. *FEBS Letters*, **1978**, 92, 287-93 | 3.8 | 551 |
| 234 | 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, 491-6 | 11.5 | 486 |
| 233 | Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. *Nature*, **1999**, 402, 669-71 | 50.4 | 483 |
| 232 | PKC-alpha regulates cardiac contractility and propensity toward heart failure. *Nature Medicine*, **2004**, 10, 248-54 | 50.5 | 479 |
| 231 | Effects of chronic exposure to cocaine are regulated by the neuronal protein Cdk5. *Nature*, **2001**, 410, 376-80 | 50.4 | 404 |
| 230 | CFTR channel opening by ATP-driven tight dimerization of its nucleotide-binding domains. *Nature*, **2005**, 433, 876-80 | 50.4 | 339 |
| 229 | CaM kinase I alpha-induced phosphorylation of Drp1 regulates mitochondrial morphology. *Journal of Cell Biology*, **2008**, 182, 573-85 | 7.3 | 337 |
| 228 | 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, 11477-81 | 11.5 | 313 |
| 227 | NMDA receptor-mediated control of protein synthesis at developing synapses. *Nature Neuroscience* , **2000**, 3, 211-6 | 25.5 | 312 |
| 226 | Structural basis for the autoinhibition of calcium/calmodulin-dependent protein kinase I. *Cell*, **1996**, 84, 875-87 | 56.2 | 295 |
| 225 | 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, 3399-404 | 11.5 | 269 |
| 224 | NMDA-mediated activation of the tyrosine phosphatase STEP regulates the duration of ERK signaling. *Nature Neuroscience*, **2003**, 6, 34-42 | 25.5 | 264 |
| 223 | 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, 4698-702 | 11.5 | 263 |
| 222 | 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, 7487-91 | 11.5 | 256 |

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| 221 | Protein phosphatase 1 modulation of neostriatal AMPA channels: regulation by DARPP-32 and spinophilin. *Nature Neuroscience*, **1999**, 2, 13-7 | 25.5 | 252 |
| 220 | The role of calmodulin in the structure and regulation of phosphorylase kinase from rabbit skeletal muscle. *FEBS Journal*, **1979**, 100, 329-37 | | 245 |
| 219 | Phosphorylation of WAVE1 regulates actin polymerization and dendritic spine morphology. *Nature*, **2006**, 442, 814-7 | 50.4 | 243 |
| 218 | 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, 6809-14 | 11.5 | 243 |
| 217 | Structure of the autoinhibited kinase domain of CaMKII and SAXS analysis of the holoenzyme. *Cell*, **2005**, 123, 849-60 | 56.2 | 242 |
| 216 | Crystal structure of the atypical protein kinase domain of a TRP channel with phosphotransferase activity. *Molecular Cell*, **2001**, 7, 1047-57 | 17.6 | 223 |
| 215 | Cocaine regulates MEF2 to control synaptic and behavioral plasticity. *Neuron*, **2008**, 59, 621-33 | 13.9 | 209 |
| 214 | Protein kinase A activates protein phosphatase 2A by phosphorylation of the B56delta subunit. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 2979-84 | 11.5 | 207 |
| 213 | Coupling of CFTR Cl- channel gating to an ATP hydrolysis cycle. *Neuron*, **1994**, 12, 473-82 | 13.9 | 200 |
| 212 | Amplification of dopaminergic signaling by a positive feedback loop. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 12840-5 | 11.5 | 193 |
| 211 | A phosphatase cascade by which rewarding stimuli control nucleosomal response. *Nature*, **2008**, 453, 879-84 | 50.4 | 189 |
| 210 | PP1-mediated dephosphorylation of phosphoproteins at mitotic exit is controlled by inhibitor-1 and PP1 phosphorylation. *Nature Cell Biology*, **2009**, 11, 644-51 | 23.4 | 184 |
| 209 | Neuron-specific phosphorylation of Alzheimer's beta-amyloid precursor protein by cyclin-dependent kinase 5. *Journal of Neurochemistry*, **2000**, 75, 1085-91 | 6 | 184 |
| 208 | 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, 2168-73 | 11.5 | 181 |
| 207 | On the mechanism of MgATP-dependent gating of CFTR Cl- channels. *Journal of General Physiology*, **2003**, 121, 17-36 | 3.4 | 170 |
| 206 | Role for the PP2A/B56delta phosphatase in regulating 14-3-3 release from Cdc25 to control mitosis. *Cell*, **2006**, 127, 759-73 | 56.2 | 169 |
| 205 | In vivo phosphorylation of CFTR promotes formation of a nucleotide-binding domain heterodimer. *EMBO Journal*, **2006**, 25, 4728-39 | 13 | 156 |
| 204 | Abeta-mediated NMDA receptor endocytosis in Alzheimer's disease involves ubiquitination of the tyrosine phosphatase STEP61. *Journal of Neuroscience*, **2010**, 30, 5948-57 | 6.6 | 154 |

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| 203 | 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, 546-51 | 11.5 | 151 |
| 202 | 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, 4159-64 | 11.5 | 150 |
| 201 | Involvement of DARPP-32 phosphorylation in the stimulant action of caffeine. *Nature*, **2002**, 418, 774-8 | 50.4 | 147 |
| 200 | FGF acts as a co-transmitter through adenosine A(2A) receptor to regulate synaptic plasticity. *Nature Neuroscience*, **2008**, 11, 1402-9 | 25.5 | 146 |
| 199 | Actions of genistein on cystic fibrosis transmembrane conductance regulator channel gating. Evidence for two binding sites with opposite effects. *Journal of General Physiology*, **1998**, 111, 477-90 | 3.4 | 145 |
| 198 | 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, 263-73 | | 145 |
| 197 | Structural basis for protein phosphatase 1 regulation and specificity. *FEBS Journal*, **2013**, 280, 596-611 | 5.7 | 144 |
| 196 | Crystal structure of a tetradecameric assembly of the association domain of Ca2+/calmodulin-dependent kinase II. *Molecular Cell*, **2003**, 11, 1241-51 | 17.6 | 144 |
| 195 | Spinophilin directs protein phosphatase 1 specificity by blocking substrate binding sites. *Nature Structural and Molecular Biology*, **2010**, 17, 459-64 | 17.6 | 142 |
| 194 | Channel function is dissociated from the intrinsic kinase activity and autophosphorylation of TRPM7/ChaK1. *Journal of Biological Chemistry*, **2005**, 280, 20793-803 | 5.4 | 141 |
| 193 | cGMP-dependent protein kinase enhances Ca2+ current and potentiates the serotonin-induced Ca2+ current increase in snail neurones. *Nature*, **1986**, 323, 812-4 | 50.4 | 141 |
| 192 | Genetic reduction of striatal-enriched tyrosine phosphatase (STEP) reverses cognitive and cellular deficits in an Alzheimer's disease mouse model. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19014-9 | 11.5 | 138 |
| 191 | The DARPP-32/protein phosphatase-1 cascade: a model for signal integration. *Brain Research Reviews*, **1998**, 26, 274-84 | | 138 |
| 190 | Phosphorylation of connexin43 and the regulation of neonatal rat cardiac myocyte gap junctions. *Journal of Molecular and Cellular Cardiology*, **1997**, 29, 2131-45 | 5.8 | 135 |
| 189 | Regulation of protein phosphatase-1. *Chemistry and Biology*, **2000**, 7, R13-23 | | 134 |
| 188 | DARPP-32 mediates the actions of multiple drugs of abuse. *AAPS Journal*, **2005**, 7, E353-60 | 3.7 | 128 |
| 187 | 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, 333-48 | 3.4 | 128 |
| 186 | The Rho-specific GEF Lfc interacts with neurabin and spinophilin to regulate dendritic spine morphology. *Neuron*, **2005**, 47, 85-100 | 13.9 | 125 |

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| 185 | Metabotropic mGlu5 receptors regulate adenosine A2A receptor signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 1322-7 | 11.5 | 124 |
| 184 | Isolation and characterization of PNUTS, a putative protein phosphatase 1 nuclear targeting subunit. *Journal of Biological Chemistry*, **1998**, 273, 4089-95 | 5.4 | 118 |
| 183 | Isotype-specific activation of cystic fibrosis transmembrane conductance regulator-chloride channels by cGMP-dependent protein kinase II. *Journal of Biological Chemistry*, **1995**, 270, 26626-31 | 5.4 | 117 |
| 182 | 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, 832-41 | 6 | 116 |
| 181 | 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, 13272-7 | 11.5 | 112 |
| 180 | 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, 3536-41 | 11.5 | 110 |
| 179 | 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, 1199-204 | 11.5 | 109 |
| 178 | Structural domains involved in the regulation of transmitter release by synapsins. *Journal of Neuroscience*, **2005**, 25, 2658-69 | 6.6 | 109 |
| 177 | Characterization of the inhibition of protein phosphatase-1 by DARPP-32 and inhibitor-2. *Journal of Biological Chemistry*, **1999**, 274, 7870-8 | 5.4 | 107 |
| 176 | Severed channels probe regulation of gating of cystic fibrosis transmembrane conductance regulator by its cytoplasmic domains. *Journal of General Physiology*, **2000**, 116, 477-500 | 3.4 | 106 |
| 175 | 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, 11062-8 | 11.5 | 104 |
| 174 | The role of DARPP-32 in the actions of drugs of abuse. *Neuropharmacology*, **2004**, 47 Suppl 1, 14-23 | 5.5 | 102 |
| 173 | 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 | 3.4 | 102 |
| 172 | Methylphenidate-induced dendritic spine formation and DeltaFosB expression in nucleus accumbens. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2915-20 | 11.5 | 101 |
| 171 | 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, 762-7 | 11.5 | 101 |
| 170 | Synaptic plasticity: one STEP at a time. *Trends in Neurosciences*, **2006**, 29, 452-8 | 13.3 | 100 |
| 169 | Role of calcineurin and protein phosphatase-2A in the regulation of DARPP-32 dephosphorylation in neostriatal neurons. *Journal of Neurochemistry*, **1999**, 72, 2015-21 | 6 | 96 |
| 168 | Regulation of the interaction between PIPKI gamma and talin by proline-directed protein kinases. *Journal of Cell Biology*, **2005**, 168, 789-99 | 7.3 | 96 |

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| 167 | Inhibitor of the tyrosine phosphatase STEP reverses cognitive deficits in a mouse model of Alzheimer's disease. *PLoS Biology*, **2014**, 12, e1001923 | 9.7 | 95 |
| 166 | The carboxyl-terminus of BACE contains a sorting signal that regulates BACE trafficking but not the formation of total A(beta). *Molecular and Cellular Neurosciences*, **2002**, 19, 175-85 | 4.8 | 95 |
| 165 | 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, 3112-6 | 11.5 | 90 |
| 164 | Changes in the phosphorylation of initiation factor eIF-2alpha, elongation factor eEF-2 and p70 S6 kinase after transient focal cerebral ischaemia in mice. *Journal of Neurochemistry*, **2001**, 78, 779-87 | 6 | 90 |
| 163 | Cholecystokinin induces a decrease in Ca2+ current in snail neurons that appears to be mediated by protein kinase C. *Nature*, **1987**, 325, 809-11 | 50.4 | 87 |
| 162 | A network of control mediated by regulator of calcium/calmodulin-dependent signaling. *Science*, **2004**, 306, 698-701 | 33.3 | 86 |
| 161 | Cyclic nucleotide-dependent protein kinases and some major substrates in the rat cerebellum after neonatal X-irradiation. *Journal of Neurochemistry*, **1983**, 40, 577-81 | 6 | 85 |
| 160 | The B$\alpha$/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, 9876-81 | 11.5 | 84 |
| 159 | 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, 1328-37 | 6 | 84 |
| 158 | A novel cAMP-stimulated pathway in protein phosphatase 2A activation. *Journal of Pharmacology and Experimental Therapeutics*, **2002**, 302, 111-8 | 4.7 | 82 |
| 157 | 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, 5036-41 | 11.5 | 81 |
| 156 | Regulation of CFTR channel gating. *Trends in Biochemical Sciences*, **1994**, 19, 513-8 | 10.3 | 81 |
| 155 | Phosphorylation of DARPP-32 at Threonine-34 is required for cocaine action. *Neuropsychopharmacology*, **2006**, 31, 555-62 | 8.7 | 80 |
| 154 | Assessment of cognitive function in the heterozygous reeler mouse. *Psychopharmacology*, **2006**, 189, 95-104 | 4.7 | 79 |
| 153 | A molecular switch for translational control in taste memory consolidation. *European Journal of Neuroscience*, **2005**, 22, 2560-8 | 3.5 | 77 |
| 152 | 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, 1737-42 | 11.5 | 77 |
| 151 | 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, 4097-102 | 11.5 | 75 |
| 150 | A multiregional proteomic survey of the postnatal human brain. *Nature Neuroscience*, **2017**, 20, 1787-1795 | 25.5 | 74 |

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| 149 | Oligomerization states of the association domain and the holoenyzme of Ca2+/CaM kinase II. *FEBS Journal*, **2006**, 273, 682-94 | 5.7 | 73 |
| 148 | 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, 21473-81 | 5.4 | 73 |
| 147 | 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, 3530-5 | 11.5 | 72 |
| 146 | Inhibition of the Ca2+/calmodulin-dependent protein kinase I cascade by cAMP-dependent protein kinase. *Journal of Biological Chemistry*, **1999**, 274, 10086-93 | 5.4 | 69 |
| 145 | Adenylyl cyclase-dependent form of chemical long-term potentiation triggers translational regulation at the elongation step. *Neuroscience*, **2003**, 116, 743-52 | 3.9 | 68 |
| 144 | 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, 11078-86 | 5.4 | 67 |
| 143 | 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, 2467-72 | 11.5 | 67 |
| 142 | Phosphorylation of spinophilin modulates its interaction with actin filaments. *Journal of Biological Chemistry*, **2003**, 278, 1186-94 | 5.4 | 66 |
| 141 | Mechanism of regulation of casein kinase I activity by group I metabotropic glutamate receptors. *Journal of Biological Chemistry*, **2002**, 277, 45393-9 | 5.4 | 66 |
| 140 | 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, 9132-7 | 11.5 | 66 |
| 139 | Severed molecules functionally define the boundaries of the cystic fibrosis transmembrane conductance regulator's NH(2)-terminal nucleotide binding domain. *Journal of General Physiology*, **2000**, 116, 163-80 | 3.4 | 66 |
| 138 | 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, 8772-8 | 5.4 | 64 |
| 137 | Protein phosphatase 1 regulation by inhibitors and targeting subunits. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 3080-5 | 11.5 | 63 |
| 136 | Differential regulation of dopamine D1 and D2 signaling by nicotine in neostriatal neurons. *Journal of Neurochemistry*, **2004**, 90, 1094-103 | 6 | 62 |
| 135 | Regulation of Na+, K+-ATPase isoforms in rat neostriatum by dopamine and protein kinase C. *Journal of Neurochemistry*, **1999**, 73, 1492-501 | 6 | 62 |
| 134 | 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, 16006-11 | 11.5 | 62 |
| 133 | Beyond the dopamine receptor: regulation and roles of serine/threonine protein phosphatases. *Frontiers in Neuroanatomy*, **2011**, 5, 50 | 3.6 | 61 |
| 132 | Preferential phosphorylation of R-domain Serine 768 dampens activation of CFTR channels by PKA. *Journal of General Physiology*, **2005**, 125, 171-86 | 3.4 | 61 |

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| 131 | [Ca2+]i determines the effects of protein kinases A and C on activity of rat renal Na+,K+-ATPase. *Journal of Physiology*, **1999**, 518, 37-46 | 3.9 | 61 |
| 130 | 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, 652-8 | 3.4 | 61 |
| 129 | Wnt-5a-induced phosphorylation of DARPP-32 inhibits breast cancer cell migration in a CREB-dependent manner. *Journal of Biological Chemistry*, **2009**, 284, 27533-43 | 5.4 | 60 |
| 128 | Discovery of protein phosphatase 2C inhibitors by virtual screening. *Journal of Medicinal Chemistry*, **2006**, 49, 1658-67 | 8.3 | 60 |
| 127 | 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, 127-33 | 3.4 | 57 |
| 126 | The regulatory region of calcium/calmodulin-dependent protein kinase I contains closely associated autoinhibitory and calmodulin-binding domains. *Journal of Biological Chemistry*, **1995**, 270, 23851-9 | 5.4 | 57 |
| 125 | A calcium- and calmodulin-dependent kinase Ialpha/microtubule affinity regulating kinase 2 signaling cascade mediates calcium-dependent neurite outgrowth. *Journal of Neuroscience*, **2007**, 27, 4413-23 | 6.6 | 56 |
| 124 | Regulation of AMPA receptor dephosphorylation by glutamate receptor agonists. *Neuropharmacology*, **2003**, 45, 703-13 | 5.5 | 55 |
| 123 | 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, 3531-6 | 11.5 | 54 |
| 122 | PNUTS, a protein phosphatase 1 (PP1) nuclear targeting subunit. Characterization of its PP1- and RNA-binding domains and regulation by phosphorylation. *Journal of Biological Chemistry*, **2003**, 278, 13819-28 | 5.4 | 53 |
| 121 | Mutation of the protein kinase C phosphorylation site on rat alpha1 Na+,K+-ATPase alters regulation of intracellular Na+ and pH and influences cell shape and adhesiveness. *Journal of Biological Chemistry*, **1997**, 272, 20179-84 | 5.4 | 50 |
| 120 | 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, 12427-31 | 11.5 | 50 |
| 119 | Spinophilin is phosphorylated by Ca2+/calmodulin-dependent protein kinase II resulting in regulation of its binding to F-actin. *Journal of Neurochemistry*, **2004**, 90, 317-24 | 6 | 49 |
| 118 | Cellular mechanisms regulating protein phosphatase-1. A key functional interaction between inhibitor-2 and the type 1 protein phosphatase catalytic subunit. *Journal of Biological Chemistry*, **2000**, 275, 18670-5 | 5.4 | 49 |
| 117 | A molecular characterization of the choroid plexus and stress-induced gene regulation. *Translational Psychiatry*, **2012**, 2, e139 | 8.6 | 48 |
| 116 | Thermodynamics of CFTR channel gating: a spreading conformational change initiates an irreversible gating cycle. *Journal of General Physiology*, **2006**, 128, 523-33 | 3.4 | 48 |
| 115 | The regulation of glycogen synthase by protein phosphatase 1 in 3T3-L1 adipocytes. Evidence for a potential role for DARPP-32 in insulin action. *Journal of Biological Chemistry*, **1997**, 272, 29698-703 | 5.4 | 47 |
| 114 | Cocaine self-administration in mice is inversely related to phosphorylation at Thr34 (protein kinase A site) and Ser130 (kinase CK1 site) of DARPP-32. *Journal of Neuroscience*, **2006**, 26, 2645-51 | 6.6 | 45 |

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| 113 | Functional roles of nonconserved structural segments in CFTR's NH2-terminal nucleotide binding domain. *Journal of General Physiology*, **2005**, 125, 43-55 | 3.4 | 45 |
| 112 | Immunocytochemical localization of phosphatase inhibitor-1 in rat brain. *Journal of Comparative Neurology*, **1991**, 310, 170-88 | 3.4 | 45 |
| 111 | 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, 9511-6 | 11.5 | 44 |
| 110 | Reduced levels of the tyrosine phosphatase STEP block β-amyloid-mediated GluA1/GluA2 receptor internalization. *Journal of Neurochemistry*, **2011**, 119, 664-72 | 6 | 44 |
| 109 | Phosphorylation of DARPP-32 regulates breast cancer cell migration downstream of the receptor tyrosine kinase DDR1. *Experimental Cell Research*, **2006**, 312, 4011-8 | 4.2 | 44 |
| 108 | Phosphodiesterase 4 inhibition enhances the dopamine D1 receptor/PKA/DARPP-32 signaling cascade in frontal cortex. *Psychopharmacology*, **2012**, 219, 1065-79 | 4.7 | 43 |
| 107 | A direct test of the reductionist approach to structural studies of calmodulin activity: relevance of peptide models of target proteins. *Journal of Biological Chemistry*, **2002**, 277, 16351-4 | 5.4 | 43 |
| 106 | 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, 3489-94 | 11.5 | 42 |
| 105 | A role for calcineurin (protein phosphatase-2B) in the regulation of glutamate release. *Biochemical and Biophysical Research Communications*, **1995**, 212, 609-16 | 3.4 | 42 |
| 104 | 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, 1751-73 | 3.4 | 41 |
| 103 | Amyloid beta peptide formation in cell-free preparations. Regulation by protein kinase C, calmodulin, and calcineurin. *Journal of Biological Chemistry*, **1996**, 271, 24670-4 | 5.4 | 41 |
| 102 | Synaptic NMDA receptor stimulation activates PP1 by inhibiting its phosphorylation by Cdk5. *Journal of Cell Biology*, **2013**, 203, 521-35 | 7.3 | 40 |
| 101 | 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 | 5 | 40 |
| 100 | Orbitofrontal cortex and cognitive-motivational impairments in psychostimulant addiction: evidence from experiments in the non-human primate. *Annals of the New York Academy of Sciences*, **2007**, 1121, 610-38 | 6.5 | 40 |
| 99 | STEP61 is a substrate of the E3 ligase parkin and is upregulated in Parkinson's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 1202-7 | 11.5 | 38 |
| 98 | 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, 18561-6 | 11.5 | 38 |
| 97 | Forebrain overexpression of CK1delta 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, 4401-6 | 11.5 | 37 |
| 96 | A 127-kDa protein (UV-DDB) binds to the cytoplasmic domain of the Alzheimer's amyloid precursor protein. *Journal of Neurochemistry*, **1999**, 72, 549-56 | 6 | 37 |

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| 95 | Proteomic analysis of activity-dependent synaptic plasticity in hippocampal neurons. *Journal of Proteome Research*, **2007**, 6, 3203-15 | 5.6 | 36 |
| 94 | Elevated glucose activates protein synthesis in cultured cardiac myocytes. *Metabolism: Clinical and Experimental*, **2005**, 54, 1453-60 | 12.7 | 36 |
| 93 | 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 | | 36 |
| 92 | Activation of a calcium-calmodulin-dependent protein kinase I cascade in PC12 cells. *Journal of Biological Chemistry*, **1996**, 271, 20930-4 | 5.4 | 36 |
| 91 | Restoration of protein synthesis in heart and skeletal muscle after withdrawal of alcohol. *Alcoholism: Clinical and Experimental Research*, **2004**, 28, 517-25 | 3.7 | 35 |
| 90 | 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, 543-64 | 3.4 | 35 |
| 89 | Phosphoproteomic Analysis Reveals a Novel Mechanism of CaMKII Regulation Inversely Induced by Cocaine Memory Extinction versus Reconsolidation. *Journal of Neuroscience*, **2016**, 36, 7613-27 | 6.6 | 34 |
| 88 | Dopamine-dependent tuning of striatal inhibitory synaptogenesis. *Journal of Neuroscience*, **2010**, 30, 2935-50 | 6.6 | 34 |
| 87 | A mathematical tool for exploring the dynamics of biological networks. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 19169-74 | 11.5 | 34 |
| 86 | The actin-binding domain of spinophilin is necessary and sufficient for targeting to dendritic spines. *NeuroMolecular Medicine*, **2002**, 2, 61-9 | 4.6 | 34 |
| 85 | Modulation of GT-1 DNA-binding activity by calcium-dependent phosphorylation. *Plant Molecular Biology*, **1999**, 40, 373-86 | 4.6 | 33 |
| 84 | 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 | 5.4 | 33 |
| 83 | Evidence for the involvement of Lfc and Tctex-1 in axon formation. *Journal of Neuroscience*, **2010**, 30, 6793-800 | 6.6 | 32 |
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