Paul Greengard

List of Publications by Year
in descending order

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471 papers	68,610 citations	231 145 h-index	932 240 g-index
496 all docs	496 docs citations	496 times ranked	41238 citing authors

#	Article	IF	Citations
1	Regulation of NMDA receptor trafficking by amyloid-Î². Nature Neuroscience, 2005, 8, 1051-1058.	14.8	1,417
2	Synaptic Vesicle Phosphoproteins and Regulation of Synaptic Function. Science, 1993, 259, 780-785.	12.6	1,248
3	Dichotomous Dopaminergic Control of Striatal Synaptic Plasticity. Science, 2008, 321, 848-851.	12.6	1,036
4	A Translational Profiling Approach for the Molecular Characterization of CNS Cell Types. Cell, 2008, 135, 738-748.	28.9	1,007
5	Application of a Translational Profiling Approach for the Comparative Analysis of CNS Cell Types. Cell, 2008, 135, 749-762.	28.9	807
6	The Neurobiology of Slow Synaptic Transmission. Science, 2001, 294, 1024-1030.	12.6	793
7	Loss of bidirectional striatal synaptic plasticity in L-DOPAâ€“induced dyskinesia. Nature Neuroscience, 2003, 6, 501-506.	14.8	791
8	Beyond the Dopamine Receptor. Neuron, 1999, 23, 435-447.	8.1	722
9	IRE1Î± Induces Thioredoxin-Interacting Protein to Activate the NLRP3 Inflammasome and Promote Programmed Cell Death under Irremediable ER Stress. Cell Metabolism, 2012, 16, 250-264.	16.2	707
10	Possible role for cyclic nucleotides and phosphorylated membrane proteins in postsynaptic actions of neurotransmittersâ€. Nature, 1976, 260, 101-108.	27.8	705
11	DARPP-32: An Integrator of Neurotransmission. Annual Review of Pharmacology and Toxicology, 2004, 44, 269-296.	9.4	639
12	Indirubins Inhibit Glycogen Synthase Kinase-3Î² and CDK5/P25, Two Protein Kinases Involved in Abnormal Tau Phosphorylation in Alzheimer's Disease. Journal of Biological Chemistry, 2001, 276, 251-260.	3.4	633
13	DARPP-32, a dopamine- and adenosine 3':5'-monophosphate-regulated phosphoprotein enriched in dopamine-innervated brain regions. III. Immunocytochemical localization. Journal of Neuroscience, 1984, 4, 111-124.	3.6	601
14	Essential Role of the Histone Methyltransferase G9a in Cocaine-Induced Plasticity. Science, 2010, 327, 213-216.	12.6	581
15	DARPP-32, a dopamine-regulated neuronal phosphoprotein, is a potent inhibitor of protein phosphatase-1. Nature, 1984, 310, 503-505.	27.8	576
16	Cholinergic agonists and interleukin 1 regulate processing and secretion of the Alzheimer beta/A4 amyloid protein precursor.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 10075-10078.	7.1	571
17	Pharmacological inhibitors of glycogen synthase kinase 3. Trends in Pharmacological Sciences, 2004, 25, 471-480.	8.7	559
18	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.	7.1	558

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19	Estrogen reduces neuronal generation of Alzheimer Î²-amyloid peptides. Nature Medicine, 1998, 4, 447-451.	30.7	545
20	Pharmacological inhibitors of cyclin-dependent kinases. Trends in Pharmacological Sciences, 2002, 23, 417-425.	8.7	543
21	Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. Nature, 1999, 402, 669-671.	27.8	538
22	Synapsins as mediators of BDNF-enhanced neurotransmitter release. Nature Neuroscience, 2000, 3, 323-329.	14.8	517
23	Modulation of calcium currents by a D1 dopaminergic protein kinase/phosphatase cascade in rat neostriatal neurons. Neuron, 1995, 14, 385-397.	8.1	514
24	Enhancement of the glutamate response by cAMP-dependent protein kinase in hippocampal neurons. Science, 1991, 253, 1135-1138.	12.6	510
25	Alterations in 5-HT1B Receptor Function by p11 in Depression-Like States. Science, 2006, 311, 77-80.	12.6	507
26	Distinct pools of synaptic vesicles in neurotransmitter release. Nature, 1995, 375, 493-497.	27.8	492
27	Protein phosphorylation in the brain. Nature, 1983, 305, 583-588.	27.8	480
28	Synapsins as regulators of neurotransmitter release. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 269-279.	4.0	478
29	Processing of Alzheimer beta/A4 amyloid precursor protein: modulation by agents that regulate protein phosphorylation.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 6003-6006.	7.1	473
30	Cerebellar neurodegeneration in the absence of microRNAs. Journal of Experimental Medicine, 2007, 204, 1553-1558.	8.5	461
31	Stimulation of Î²-Amyloid Precursor Protein Trafficking by Insulin Reduces Intraneuronal Î²-Amyloid and Requires Mitogen-Activated Protein Kinase Signaling. Journal of Neuroscience, 2001, 21, 2561-2570.	3.6	460
32	Effects of chronic exposure to cocaine are regulated by the neuronal protein Cdk5. Nature, 2001, 410, 376-380.	27.8	442
33	Spinophilin, a novel protein phosphatase 1 binding protein localized to dendritic spines. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 9956-9961.	7.1	440
34	Cyclic AMP-dependent protein kinase opens chloride channels in normal but not cystic fibrosis airway epithelium. Nature, 1988, 331, 358-360.	27.8	428
35	DARPP-32: Regulator of the Efficacy of Dopaminergic Neurotransmission. , 1998, 281, 838-842.		428
36	Relative abundance of Alzheimer A beta amyloid peptide variants in Alzheimer disease and normal aging.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 8378-8382.	7.1	421

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37	Chaperones increase association of tau protein with microtubules. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 721-726.	7.1	421
38	Synapsin I bundles F-actin in a phosphorylation-dependent manner. Nature, 1987, 326, 704-707.	27.8	414
39	Phosphorylation of the nicotinic acetylcholine receptor regulates its rate of desensitization. Nature, 1986, 321, 774-776.	27.8	413
40	Critical Involvement of cAMP/DARPP-32 and Extracellular Signal-Regulated Protein Kinase Signaling in L-DOPA-Induced Dyskinesia. Journal of Neuroscience, 2007, 27, 6995-7005.	3.6	400
41	Cell typeâ€“specific mRNA purification by translating ribosome affinity purification (TRAP). Nature Protocols, 2014, 9, 1282-1291.	12.0	387
42	Neurotrophins stimulate phosphorylation of synapsin I by MAP kinase and regulate synapsin I-actin interactions.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 3679-3683.	7.1	377
43	Activation of NMDA receptors induces dephosphorylation of DARPP-32 in rat striatal slices. Nature, 1990, 343, 369-372.	27.8	373
44	Bidirectional Regulation of DARPP-32 Phosphorylation by Dopamine. Journal of Neuroscience, 1997, 17, 8147-8155.	3.6	368
45	Spinophilin regulates the formation and function of dendritic spines. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 9287-9292.	7.1	368
46	Anatomical and physiological evidence for D1 and D2 dopamine receptor colocalization in neostriatal neurons. Nature Neuroscience, 2000, 3, 226-230.	14.8	366
47	Beta-amyloid accumulation in APP mutant neurons reduces PSD-95 and GluR1 in synapses. Neurobiology of Disease, 2005, 20, 187-198.	4.4	356
48	Endoplasmic reticulum and trans-Golgi network generate distinct populations of Alzheimer Î²-amyloid peptides. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 742-747.	7.1	354
49	Protein phosphorylation regulates secretion of Alzheimer beta/A4 amyloid precursor protein.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 3055-3059.	7.1	351
50	Dopamine and cAMP-Regulated Phosphoprotein 32 kDa Controls Both Striatal Long-Term Depression and Long-Term Potentiation, Opposing Forms of Synaptic Plasticity. Journal of Neuroscience, 2000, 20, 8443-8451.	3.6	337
51	A dopamine- and cyclic AMP-regulated phosphoprotein enriched in dopamine-innervated brain regions. Nature, 1983, 301, 69-71.	27.8	333
52	Stimulation of brain membrane protein phosphorylation by calcium and an endogenous heat-stable protein. Nature, 1978, 271, 478-479.	27.8	332
53	Paullones are potent inhibitors of glycogen synthase kinase-3Î² and cyclin-dependent kinase 5/p25. FEBS Journal, 2000, 267, 5983-5994.	0.2	330
54	Impairment of synaptic vesicle clustering and of synaptic transmission, and increased seizure propensity, in synapsin I-deficient mice.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9235-9239.	7.1	328

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55	A synaptic vesicle protein with a novel cytoplasmic domain and four transmembrane regions. Science, 1987, 238, 1142-1144.	12.6	321
56	Synapsin dispersion and reclustering during synaptic activity. Nature Neuroscience, 2001, 4, 1187-1193.	14.8	317
57	Different Presynaptic Roles of Synapsins at Excitatory and Inhibitory Synapses. Journal of Neuroscience, 2004, 24, 11368-11380.	3.6	315
58	A Dopamine/D1 Receptor/Protein Kinase A/Dopamine- and cAMP-Regulated Phosphoprotein (M_r 32 kDa)/Protein Phosphatase-1 Pathway Regulates Dephosphorylation of the NMDA Receptor. Journal of Neuroscience, 1998, 18, 10297-10303.	3.6	314
59	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.	7.1	312
60	DARPP-32, a dopamine- and adenosine 3':5'-monophosphate-regulated phosphoprotein enriched in dopamine-innervated brain regions. I. Regional and cellular distribution in the rat brain. Journal of Neuroscience, 1984, 4, 84-98.	3.6	306
61	Diverse Psychotomimetics Act Through a Common Signaling Pathway. Science, 2003, 302, 1412-1415.	12.6	306
62	Synaptic Vesicle Mobilization Is Regulated by Distinct Synapsin I Phosphorylation Pathways at Different Frequencies. Neuron, 2003, 38, 69-78.	8.1	303
63	Gamma-secretase activating protein is a therapeutic target for Alzheimerâ€™s disease. Nature, 2010, 467, 95-98.	27.8	303
64	Regulation by synapsin I and Ca(2+)â€calmodulinâ€dependent protein kinase II of the transmitter release in squid giant synapse.. Journal of Physiology, 1991, 436, 257-282.	2.9	299
65	Synaptic vesicle-associated Ca2+/calmodulin-dependent protein kinase II is a binding protein for synapsin I. Nature, 1992, 359, 417-420.	27.8	299
66	Distinct subclasses of medium spiny neurons differentially regulate striatal motor behaviors. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14845-14850.	7.1	299
67	Regulation of Phosphorylation of the GluR1 AMPA Receptor in the Neostriatum by Dopamine and PsychostimulantsIn Vivo. Journal of Neuroscience, 2000, 20, 4480-4488.	3.6	295
68	Calcium/calmodulin-dependent protein kinase II increases glutamate and noradrenaline release from synaptosomes. Nature, 1990, 343, 647-651.	27.8	290
69	Phosphorylation of WAVE1 regulates actin polymerization and dendritic spine morphology. Nature, 2006, 442, 814-817.	27.8	289
70	Control of Cognition and Adaptive Behavior by the GLP/G9a Epigenetic Suppressor Complex. Neuron, 2009, 64, 678-691.	8.1	286
71	Inhibition by dopamine of (Na+ + K+)ATPase activity in neostriatal neurons through D1 and D2 dopamine receptor synergism. Nature, 1990, 347, 386-388.	27.8	282
72	Protein phosphorylation inhibits production of Alzheimer amyloid beta/A4 peptide.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 9195-9198.	7.1	282

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73	Protein phosphatase 1 modulation of neostriatal AMPA channels: regulation by DARPPâ€“32 and spinophilin. Nature Neuroscience, 1999, 2, 13-17.	14.8	280
74	Three-Dimensional Architecture of Presynaptic Terminal Cytomatrix. Journal of Neuroscience, 2007, 27, 6868-6877.	3.6	280
75	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.	7.1	278
76	Multiple phosphorylation sites in protein I and their differential regulation by cyclic AMP and calcium.. Proceedings of the National Academy of Sciences of the United States of America, 1979, 76, 5402-5406.	7.1	277
77	Phorbol Ester Enhancement of Neurotransmitter Release from Rat Brain Synaptosomes. Journal of Neurochemistry, 1987, 48, 615-621.	3.9	273
78	Cyclin-dependent kinase 5 governs learning and synaptic plasticity via control of NMDAR degradation. Nature Neuroscience, 2007, 10, 880-886.	14.8	270
79	Generation of Alzheimer Â-amyloid protein in the trans-Golgi network in the apparent absence of vesicle formation. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3748-3752.	7.1	267
80	Chloride conductance regulated by cyclic AMP-dependent protein kinase in cardiac myocytes. Nature, 1989, 340, 718-721.	27.8	265
81	Roles of heat-shock protein 90 in maintaining and facilitating the neurodegenerative phenotype in tauopathies. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9511-9516.	7.1	265
82	MicroRNA-128 Governs Neuronal Excitability and Motor Behavior in Mice. Science, 2013, 342, 1254-1258.	12.6	264
83	Brain histamine receptors as targets for antidepressant drugs. Nature, 1978, 272, 329-333.	27.8	260
84	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
85	Functional modulation of the nicotinic acetylcholine receptor by tyrosine phosphorylation. Nature, 1988, 336, 677-680.	27.8	255
86	Protein Phosphorylation and Neuronal Function. Journal of Neurochemistry, 1985, 45, 11-23.	3.9	252
87	Antidepressant effects of selective serotonin reuptake inhibitors (SSRIs) are attenuated by antiinflammatory drugs in mice and humans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9262-9267.	7.1	252
88	Cocaine Regulates MEF2 to Control Synaptic and Behavioral Plasticity. Neuron, 2008, 59, 621-633.	8.1	246
89	Cell type-specific plasticity of striatal projection neurons in parkinsonism and L-DOPA-induced dyskinesia. Nature Communications, 2014, 5, 5316.	12.8	245
90	Dopamine Enhancement of NMDA Currents in Dissociated Medium-Sized Striatal Neurons: Role of D1 Receptors and DARPP-32. Journal of Neurophysiology, 2002, 88, 3010-3020.	1.8	244

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91	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
92	Impairment of axonal development and of synaptogenesis in hippocampal neurons of synapsin I-deficient mice.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 9230-9234.	7.1	238
93	Inhibition of mTOR Signaling in Parkinsonâ€™s Disease Prevents <scp>l</scp> -DOPAâ€“Induced Dyskinesia. Science Signaling, 2009, 2, ra36.	3.6	237
94	A third member of the synapsin gene family. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4667-4672.	7.1	225
95	DARPP-32, a dopamine- and adenosine 3':5'-monophosphate-regulated phosphoprotein: regional, tissue, and phylogenetic distribution. Journal of Neuroscience, 1986, 6, 1469-1481.	3.6	221
96	Histamine-sensitive adenylate cyclase in mammalian brain. Nature, 1976, 260, 163-165.	27.8	219
97	A phosphatase cascade by which rewarding stimuli control nucleosomal response. Nature, 2008, 453, 879-884.	27.8	219
98	The innate immunity protein IFITM3 modulates Î³-secretase in Alzheimerâ€™s disease. Nature, 2020, 586, 735-740.	27.8	219
99	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.	7.1	218
100	Involvement of striatal and extrastriatal DARPP-32 in biochemical and behavioral effects of fluoxetine (Prozac). Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3182-3187.	7.1	217
101	Neuronâ€Specific Phosphorylation of Alzheimer's Î²â€Amyloid Precursor Protein by Cyclinâ€Dependent Kinase 5. Journal of Neurochemistry, 2000, 75, 1085-1091.	3.9	212
102	Cocaine-induced proliferation of dendritic spines in nucleus accumbens is dependent on the activity of cyclin-dependent kinase-5. Neuroscience, 2003, 116, 19-22.	2.3	212
103	Phosphorylation of Alzheimer disease amyloid precursor peptide by protein kinase C and Ca2+/calmodulin-dependent protein kinase II.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 6218-6221.	7.1	205
104	Cell typeâ€“specific regulation of DARPP-32 phosphorylation by psychostimulant and antipsychotic drugs. Nature Neuroscience, 2008, 11, 932-939.	14.8	205
105	DARPP-32, a dopamine- and adenosine 3':5'-monophosphate-regulated phosphoprotein enriched in dopamine-innervated brain regions. II. Purification and characterization of the phosphoprotein from bovine caudate nucleus. Journal of Neuroscience, 1984, 4, 99-110.	3.6	201
106	Calcium/phospholipid-dependent protein kinase (protein kinase C) phosphorylates and activates tyrosine hydroxylase.. Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 7713-7717.	7.1	201
107	Adaptor complex AP2/PICALM, through interaction with LC3, targets Alzheimer's APP-CTF for terminal degradation via autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17071-17076.	7.1	200
108	D2 dopamine receptors induce mitogen-activated protein kinase and cAMP response element-binding protein phosphorylation in neurons. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11607-11612.	7.1	198

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109	AÎ²-Mediated NMDA Receptor Endocytosis in Alzheimer's Disease Involves Ubiquitination of the Tyrosine Phosphatase STEP₆₁. Journal of Neuroscience, 2010, 30, 5948-5957.	3.6	198
110	A smallâ€molecule enhancer of autophagy decreases levels of AÎ² and APPâ€CTF via Atg5â€dependent autophagy pathway . FASEB Journal, 2011, 25, 1934-1942.	0.5	197
111	Colocalization of synapsin and actin during synaptic vesicle recycling. Journal of Cell Biology, 2003, 161, 737-747.	5.2	193
112	Regulation of the phosphorylation of the dopamine- and cAMP-regulated phosphoprotein of 32 kDa in vivo by dopamine D1, dopamine D2, and adenosine A2A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 1856-1860.	7.1	190
113	An endogenous substrate for cGMP-dependent protein kinase in mammalian cerebellum. Nature, 1978, 273, 61-62.	27.8	188
114	Impaired TrkB Receptor Signaling Underlies Corticostriatal Dysfunction in Huntingtonâ€™s Disease. Neuron, 2014, 83, 178-188.	8.1	186
115	Role of protein phosphorylation in neuronal signal transduction 1. FASEB Journal, 1989, 3, 1583-1592.	0.5	183
116	Gleevec inhibits Î²-amyloid production but not Notch cleavage. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12444-12449.	7.1	183
117	M4 Muscarinic Receptor Signaling Ameliorates Striatal Plasticity Deficits in Models of L-DOPA-Induced Dyskinesia. Neuron, 2015, 88, 762-773.	8.1	183
118	Mammalian brain phosphoproteins as substrates for calcineurin.. Journal of Biological Chemistry, 1984, 259, 8080-8083.	3.4	181
119	Mechanisms of Locomotor Sensitization to Drugs of Abuse in a Two-Injection Protocol. Neuropsychopharmacology, 2010, 35, 401-415.	5.4	180
120	Advances in the pharmacological treatment of Parkinson's disease: targeting neurotransmitter systems. Trends in Neurosciences, 2013, 36, 543-554.	8.6	180
121	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.	7.1	179
122	Quantitative immunocytochemistry of DARPP-32-expressing neurons in the rat caudatoputamen. Brain Research, 1998, 808, 8-12.	2.2	178
123	Induction of formation of presynaptic terminals in neuroblastoma cells by synapsin IIb. Nature, 1991, 349, 697-700.	27.8	174
124	Involvement of DARPP-32 phosphorylation in the stimulant action of caffeine. Nature, 2002, 418, 774-778.	27.8	174
125	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
126	Differential expression of protein phosphatase 1 isoforms in mammalian brain. Journal of Neuroscience, 1995, 15, 3375-3389.	3.6	171

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127	Molecular determinants of selective dopaminergic vulnerability in ParkinsonÃ¢â‚¬â„¢s disease: an update. Frontiers in Neuroanatomy, 2014, 8, 152.	1.7	171
128	Calcium-dependent protein phosphorylation during secretion by exocytosis in the mast cell. Nature, 1978, 275, 329-331.	27.8	170
129	Calcium regulates processing of the Alzheimer amyloid protein precursor in a protein kinase C-independent manner.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 4489-4493.	7.1	170
130	Purification and characterization of Ca2+/calmodulin-dependent protein kinase I from bovine brain. Journal of Biological Chemistry, 1987, 262, 7273-81.	3.4	170
131	Opposing Changes in Phosphorylation of Specific Sites in Synapsin I During Ca²⁺-Dependent Glutamate Release in Isolated Nerve Terminals. Journal of Neuroscience, 2001, 21, 7944-7953.	3.6	169
132	FGF acts as a co-transmitter through adenosine A2A receptor to regulate synaptic plasticity. Nature Neuroscience, 2008, 11, 1402-1409.	14.8	167
133	Cellular and molecular basis for stress-induced depression. Molecular Psychiatry, 2017, 22, 1440-1447.	7.9	166
134	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.	7.1	164
135	<scp>l</scp>â€ÐOPA activates ERK signaling and phosphorylates histone H3 in the striatonigral medium spiny neurons of hemiparkinsonian mice. Journal of Neurochemistry, 2009, 108, 621-633.	3.9	164
136	Regional distribution of calcium- and cyclic adenosine 3':5'- monophosphate-regulated protein phosphorylation systems in mammalian brain. II. Soluble systems. Journal of Neuroscience, 1983, 3, 302-311.	3.6	160
137	Regulation of Neurotransmitter Release by Synapsin III. Journal of Neuroscience, 2002, 22, 4372-4380.	3.6	158
138	Evidence for Decreased DARPP-32 in the Prefrontal Cortex of Patients With Schizophrenia. Archives of General Psychiatry, 2002, 59, 705.	12.3	157
139	Three-Dimensional Study of Alzheimerâ€™s Disease Hallmarks Using the iDISCO Clearing Method. Cell Reports, 2016, 16, 1138-1152.	6.4	156
140	Distinct Levels of Dopamine Denervation Differentially Alter Striatal Synaptic Plasticity and NMDA Receptor Subunit Composition. Journal of Neuroscience, 2010, 30, 14182-14193.	3.6	155
141	Two sites of action for synapsin domain E in regulating neurotransmitter release. Nature Neuroscience, 1998, 1, 29-35.	14.8	154
142	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.	9.0	152
143	DARPP-32 mediates the actions of multiple drugs of abuse. AAPS Journal, 2005, 7, E353-E360.	4.4	152
144	Regulated Formation of Golgi Secretory Vesicles Containing Alzheimer Î²-Amyloid Precursor Protein. Journal of Biological Chemistry, 1995, 270, 23243-23245.	3.4	149

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145	Biochemical and Behavioral Evidence for Antidepressant-Like Effects of 5-HT6 Receptor Stimulation. Journal of Neuroscience, 2007, 27, 4201-4209.	3.6	149
146	Role of p11 in Cellular and Behavioral Effects of 5-HT4 Receptor Stimulation. Journal of Neuroscience, 2009, 29, 1937-1946.	3.6	149
147	Spinophilin Blocks Arrestin Actions in Vitro and in Vivo at G Protein-Coupled Receptors. Science, 2004, 304, 1940-1944.	12.6	148
148	Phosphorylation of DARPP-32, a dopamine- and cAMP-regulated phosphoprotein, by casein kinase II. Journal of Biological Chemistry, 1989, 264, 21748-21759.	3.4	148
149	Localization of cyclic GMP-dependent protein kinase and substrate in mammalian cerebellum.. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 5537-5541.	7.1	147
150	Mammalian brain phosphoproteins as substrates for calcineurin. Journal of Biological Chemistry, 1984, 259, 8080-3.	3.4	147
151	Regulation of phosphorylation of the GluR1 AMPA receptor by dopamine D2receptors. Journal of Neurochemistry, 2006, 96, 482-488.	3.9	146
152	p11 and its role in depression and therapeutic responses to antidepressants. Nature Reviews Neuroscience, 2013, 14, 673-680.	10.2	144
153	Cholinergic interneurons in the nucleus accumbens regulate depression-like behavior. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11360-11365.	7.1	141
154	Phosphorylation of DARPP-32 and protein phosphatase inhibitor-1 in rat choroid plexus: regulation by factors other than dopamine. Journal of Neuroscience, 1992, 12, 3071-3083.	3.6	139
155	Spinophilin regulates Ca2+ signalling by binding the N-terminal domain of RGS2 and the third intracellular loop of G-protein-coupled receptors. Nature Cell Biology, 2005, 7, 405-411.	10.3	138
156	D₁ Dopamine Receptor Activation Reduces GABA_A Receptor Currents in Neostriatal Neurons Through a PKA/DARPP-32/PP1 Signaling Cascade. Journal of Neurophysiology, 2000, 83, 2996-3004.	1.8	135
157	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
158	DARPP-32, a dopamine- and adenosine 3â€˜:5â€˜-monophosphate-regulated neuronal phosphoprotein. II. Comparison of the kinetics of phosphorylation of DARPP-32 and phosphatase inhibitor 1.. Journal of Biological Chemistry, 1984, 259, 14491-14497.	3.4	135
159	Structural Domains Involved in the Regulation of Transmitter Release by Synapsins. Journal of Neuroscience, 2005, 25, 2658-2669.	3.6	134
160	Argonaute 2 in dopamine 2 receptorâ€“expressing neurons regulates cocaine addiction. Journal of Experimental Medicine, 2010, 207, 1843-1851.	8.5	134
161	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
162	The Rho-Specific GEF Lfc Interacts with Neurabin and Spinophilin to Regulate Dendritic Spine Morphology. Neuron, 2005, 47, 85-100.	8.1	132

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163	A protein kinase Aâ€“dependent molecular switch in synapsins regulates neurite outgrowth. Nature Neuroscience, 2002, 5, 431-437.	14.8	128
164	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
165	Phosphorylation of DARPP-32, a dopamine- and cAMP-regulated phosphoprotein, by casein kinase II. Journal of Biological Chemistry, 1989, 264, 21748-59.	3.4	127
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