

# Kohji Fukunaga

## List of Publications by Citations

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347  
papers

10,400  
citations

54  
h-index

80  
g-index

395  
ext. papers

11,661  
ext. citations

5.4  
avg, IF

6.19  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 347 | Neuronal injury in rat model of permanent focal cerebral ischemia is associated with activation of autophagic and lysosomal pathways. <i>Autophagy</i> , <b>2008</b> , 4, 762-9  | 10.2 | 319       |
| 346 | Role of MAP kinase in neurons. <i>Molecular Neurobiology</i> , <b>1998</b> , 16, 79-95   | 6.2  | 227       |
| 345 | Alpha-CaMKII deficiency causes immature dentate gyrus, a novel candidate endophenotype of psychiatric disorders. <i>Molecular Brain</i> , <b>2008</b> , 1, 6   | 4.5  | 204       |
| 344 | Activation of Akt/protein kinase B contributes to induction of ischemic tolerance in the CA1 subfield of gerbil hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2001</b> , 21, 351-60   | 7.3  | 203       |
| 343 | Purification and characterization of a Ca <sup>2+</sup> - and calmodulin-dependent protein kinase from rat brain. <i>Journal of Neurochemistry</i> , <b>1982</b> , 39, 1607-17   | 6    | 197       |
| 342 | Increased phosphorylation of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II and its endogenous substrates in the induction of long-term potentiation. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 6119-24                      | 5.4  | 185       |
| 341 | Immunohistochemical localization of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II in rat brain and various tissues. <i>Journal of Neurochemistry</i> , <b>1988</b> , 51, 1070-8   | 6    | 182       |
| 340 | Dephosphorylation of microtubule-associated protein 2, tau factor, and tubulin by calcineurin. <i>Journal of Neurochemistry</i> , <b>1985</b> , 45, 276-83   | 6    | 167       |
| 339 | Calcium/calmodulin-dependent protein kinase II contributes to activity-dependent filopodia growth and spine formation. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 10645-9  | 6.6  | 145       |
| 338 | Activation of mitogen-activated protein kinase in cultured rat hippocampal neurons by stimulation of glutamate receptors. <i>Journal of Neurochemistry</i> , <b>1995</b> , 65, 1282-9  | 6    | 126       |
| 337 | Dephosphorylation of microtubule proteins by brain protein phosphatases 1 and 2A, and its effect on microtubule assembly. <i>Journal of Neurochemistry</i> , <b>1988</b> , 50, 1614-23   | 6    | 117       |
| 336 | A working model of CaM kinase II activity in hippocampal long-term potentiation and memory. <i>Neuroscience Research</i> , <b>2000</b> , 38, 3-17  | 2.9  | 109       |
| 335 | Role of Akt and ERK signaling in the neurogenesis following brain ischemia. <i>International Review of Neurobiology</i> , <b>2009</b> , 85, 375-87   | 4.4  | 103       |
| 334 | Nobiletin improves brain ischemia-induced learning and memory deficits through stimulation of CaMKII and CREB phosphorylation. <i>Brain Research</i> , <b>2009</b> , 1295, 218-29  | 3.7  | 101       |
| 333 | Mechanism of neurotrophic action of nobiletin in PC12D cells. <i>Biochemistry</i> , <b>2005</b> , 44, 13683-91   | 3.2  | 93        |
| 332 | Up-regulation of endothelial nitric oxide synthase via phosphatidylinositol 3-kinase pathway contributes to ischemic tolerance in the CA1 subfield of gerbil hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2004</b> , 24, 271-9 | 7.3  | 92        |
| 331 | CaM kinase II in long-term potentiation. <i>Neurochemistry International</i> , <b>1996</b> , 28, 343-58  | 4.4  | 92        |

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|-----|--|------|----|
| 330 | Effect of lithium on the circadian rhythms of locomotor activity and glycogen synthase kinase-3 protein expression in the mouse suprachiasmatic nuclei. <i>European Journal of Neuroscience</i> , <b>2004</b> , 19, 2281-7   | 3.5  | 90 |
| 329 | p53 mediates mitochondria dysfunction-triggered autophagy activation and cell death in rat striatum. <i>Autophagy</i> , <b>2009</b> , 5, 339-50  | 10.2 | 89 |
| 328 | Akt is a molecular target for signal transduction therapy in brain ischemic insult. <i>Journal of Pharmacological Sciences</i> , <b>2003</b> , 92, 317-27  | 3.7  | 89 |
| 327 | Activation of calcium/calmodulin-dependent protein kinase IV in long term potentiation in the rat hippocampal CA1 region. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 24044-50   | 5.4  | 89 |
| 326 | Differential roles of Ca(2+)/calmodulin-dependent protein kinase II and mitogen-activated protein kinase activation in hippocampal long-term potentiation. <i>Journal of Neuroscience</i> , <b>1999</b> , 19, 8292-9   | 6.6  | 83 |
| 325 | Precise distribution of neuronal nitric oxide synthase mRNA in the rat brain revealed by non-radioisotopic in situ hybridization. <i>Molecular Brain Research</i> , <b>1998</b> , 53, 1-12   |      | 82 |
| 324 | Neuroprotective effect of sodium orthovanadate on delayed neuronal death after transient forebrain ischemia in gerbil hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2001</b> , 21, 1268-80  | 7.3  | 77 |
| 323 | Heart-type fatty acid binding protein regulates dopamine D2 receptor function in mouse brain. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 3146-55   | 6.6  | 75 |
| 322 | Neurofibromatosis type I tumor suppressor neurofibromin regulates neuronal differentiation via its GTPase-activating protein function toward Ras. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 26958-69   | 5.4  | 72 |
| 321 | Interaction of NE-dlg/SAP102, a neuronal and endocrine tissue-specific membrane-associated guanylate kinase protein, with calmodulin and PSD-95/SAP90. A possible regulatory role in molecular clustering at synaptic sites. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 5782-90 | 5.4  | 72 |
| 320 | Decreased protein phosphatase 2A activity in hippocampal long-term potentiation. <i>Journal of Neurochemistry</i> , <b>2000</b> , 74, 807-17   | 6    | 71 |
| 319 | Targeted therapy of brain ischaemia using Fas ligand antibody conjugated PEG-lipid nanoparticles. <i>Biomaterials</i> , <b>2014</b> , 35, 530-7  | 15.6 | 70 |
| 318 | Nobiletin treatment improves motor and cognitive deficits seen in MPTP-induced Parkinson model mice. <i>Neuroscience</i> , <b>2014</b> , 259, 126-41   | 3.9  | 69 |
| 317 | Generation of constitutively active calcineurin by calpain contributes to delayed neuronal death following mouse brain ischemia. <i>Journal of Neurochemistry</i> , <b>2006</b> , 98, 310-20   | 6    | 68 |
| 316 | Regional and temporal alterations in Ca2+/calmodulin-dependent protein kinase II and calcineurin in the hippocampus of rat brain after transient forebrain ischemia. <i>Journal of Neurochemistry</i> , <b>1992</b> , 58, 1798-809   | 6    | 68 |
| 315 | Nobiletin, a citrus flavonoid with neurotrophic action, augments protein kinase A-mediated phosphorylation of the AMPA receptor subunit, GluR1, and the postsynaptic receptor response to glutamate in murine hippocampus. <i>European Journal of Pharmacology</i> , <b>2008</b> , 578, 194-200  | 5.3  | 66 |
| 314 | Stimulation of the sigma-1 receptor by DHEA enhances synaptic efficacy and neurogenesis in the hippocampal dentate gyrus of olfactory bulbectomized mice. <i>PLoS ONE</i> , <b>2013</b> , 8, e60863  | 3.7  | 65 |
| 313 | Ca2+/calmodulin-dependent protein kinase II-dependent long-term potentiation in the rat suprachiasmatic nucleus and its inhibition by melatonin. <i>Journal of Neuroscience Research</i> , <b>2002</b> , 70, 799-807   | 4.4  | 65 |

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|-----|---|------|----|
| 312 | Transcriptional regulation of neuronal genes and its effect on neural functions: expression and function of forkhead transcription factors in neurons. <i>Journal of Pharmacological Sciences</i> , <b>2005</b> , 98, 205-211                               | 3.7  | 65 |
| 311 | Involvement of calcium-calmodulin protein kinase but not mitogen-activated protein kinase in light-induced phase delays and Per gene expression in the suprachiasmatic nucleus of the hamster. <i>Journal of Neurochemistry</i> , <b>2001</b> , 77, 618-27  | 6    | 65 |
| 310 | Decreased calcium/calmodulin-dependent protein kinase II and protein kinase C activities mediate impairment of hippocampal long-term potentiation in the olfactory bulbectomized mice. <i>Journal of Neurochemistry</i> , <b>2006</b> , 97, 22-9            | 6    | 64 |
| 309 | Cyclic AMP inhibits activation of mitogen-activated protein kinase and cell proliferation in response to growth factors in cultured rat cortical astrocytes. <i>Journal of Neurochemistry</i> , <b>1996</b> , 67, 2246-55                                   | 6    | 64 |
| 308 | Regulation of the ischemia-induced autophagy-lysosome processes by nitrosative stress in endothelial cells. <i>Journal of Pineal Research</i> , <b>2011</b> , 51, 124-35  | 10.4 | 63 |
| 307 | Functional uncoupling between Ca <sup>2+</sup> release and afterhyperpolarization in mutant hippocampal neurons lacking junctophilins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 10811-6  | 11.5 | 63 |
| 306 | IQ-ArfGEF/BRAG1 is a guanine nucleotide exchange factor for Arf6 that interacts with PSD-95 at postsynaptic density of excitatory synapses. <i>Neuroscience Research</i> , <b>2008</b> , 60, 199-212  | 2.9  | 62 |
| 305 | Essential role of neuron-enriched diacylglycerol kinase (DGK), DGKbeta in neurite spine formation, contributing to cognitive function. <i>PLoS ONE</i> , <b>2010</b> , 5, e11602  | 3.7  | 62 |
| 304 | Expression of a truncated form of the endoplasmic reticulum chaperone protein, $\beta$ receptor, promotes mitochondrial energy depletion and apoptosis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 23318-31                                | 5.4  | 61 |
| 303 | Constitutively active calcineurin mediates delayed neuronal death through Fas-ligand expression via activation of NFAT and FKHR transcriptional activities in mouse brain ischemia. <i>Journal of Neurochemistry</i> , <b>2007</b> , 102, 1506-1517         | 6    | 61 |
| 302 | Microsphere embolism-induced endothelial nitric oxide synthase expression mediates disruption of the blood-brain barrier in rat brain. <i>Journal of Neurochemistry</i> , <b>2006</b> , 99, 97-106  | 6    | 61 |
| 301 | Differential subcellular localization of two dopamine D2 receptor isoforms in transfected NG108-15 cells. <i>Journal of Neurochemistry</i> , <b>2003</b> , 85, 1064-74  | 6    | 59 |
| 300 | Disturbance of cerebellar synaptic maturation in mutant mice lacking BSRPs, a novel brain-specific receptor-like protein family. <i>FEBS Letters</i> , <b>2006</b> , 580, 4057-64   | 3.8  | 58 |
| 299 | Decreased akt activity is associated with activation of forkhead transcription factor after transient forebrain ischemia in gerbil hippocampus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2002</b> , 22, 926-34                             | 7.3  | 57 |
| 298 | Activation of phosphatidylinositol 3-kinase/protein kinase B pathway by a vanadyl compound mediates its neuroprotective effect in mouse brain ischemia. <i>Neuroscience</i> , <b>2007</b> , 148, 221-9  | 3.9  | 56 |
| 297 | Inhibition of HtrA2/Omi ameliorates heart dysfunction following ischemia/reperfusion injury in rat heart in vivo. <i>European Journal of Pharmacology</i> , <b>2007</b> , 557, 168-77   | 5.3  | 55 |
| 296 | Activation of nuclear Ca(2+)/calmodulin-dependent protein kinase II and brain-derived neurotrophic factor gene expression by stimulation of dopamine D2 receptor in transfected NG108-15 cells. <i>Journal of Neurochemistry</i> , <b>2002</b> , 82, 316-28 | 6    | 55 |
| 295 | Aberrant calcium/calmodulin-dependent protein kinase II (CaMKII) activity is associated with abnormal dendritic spine morphology in the ATRX mutant mouse brain. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 346-58                                  | 6.6  | 54 |

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|-----|---|------|----|
| 294 | FABP3 protein promotes $\beta$ -nuclein oligomerization associated with 1-methyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 18957-65   | 5.4  | 53 |
| 293 | Comprehensive behavioral analysis of calcium/calmodulin-dependent protein kinase IV knockout mice. <i>PLoS ONE</i> , <b>2010</b> , 5, e9460   | 3.7  | 53 |
| 292 | Ca <sup>2+</sup> /calmodulin-dependent protein kinase IV-mediated LIM kinase activation is critical for calcium signal-induced neurite outgrowth. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 28554-62  | 5.4  | 53 |
| 291 | Involvement of p38 mitogen-activated protein kinase activation in bromocriptine-induced apoptosis in rat pituitary GH3 cells. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 1486-94  | 3.9  | 52 |
| 290 | Cardioprotection by vanadium compounds targeting Akt-mediated signaling. <i>Journal of Pharmacological Sciences</i> , <b>2009</b> , 110, 1-13   | 3.7  | 51 |
| 289 | Ovariectomy augments pressure overload-induced hypertrophy associated with changes in Akt and nitric oxide synthase signaling pathways in female rats. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 293, E1606-14                             | 6    | 51 |
| 288 | Reduced calcium/calmodulin-dependent protein kinase II activity in the hippocampus is associated with impaired cognitive function in MPTP-treated mice. <i>Journal of Neurochemistry</i> , <b>2012</b> , 120, 541-51  | 6    | 50 |
| 287 | Quantitative measurement of in vivo phosphorylation states of Cdk5 activator p35 by Phos-tag SDS-PAGE. <i>Molecular and Cellular Proteomics</i> , <b>2010</b> , 9, 1133-43  | 7.6  | 50 |
| 286 | The vanadium (IV) compound rescues septo-hippocampal cholinergic neurons from neurodegeneration in olfactory bulbectomized mice. <i>Neuroscience</i> , <b>2008</b> , 151, 671-9   | 3.9  | 50 |
| 285 | Sigma-1 receptor stimulation by dehydroepiandrosterone ameliorates cognitive impairment through activation of CaM kinase II, protein kinase C and extracellular signal-regulated kinase in olfactory bulbectomized mice. <i>Journal of Neurochemistry</i> , <b>2011</b> , 117, 879-91 | 6    | 49 |
| 284 | The T-type voltage-gated calcium channel as a molecular target of the novel cognitive enhancer ST101: enhancement of long-term potentiation and CaMKII autophosphorylation in rat cortical slices. <i>Journal of Neurochemistry</i> , <b>2012</b> , 121, 44-53                        | 6    | 47 |
| 283 | Nitrosative stress induces peroxiredoxin 1 ubiquitination during ischemic insult via E6AP activation in endothelial cells both in vitro and in vivo. <i>Antioxidants and Redox Signaling</i> , <b>2014</b> , 21, 1-16   | 8.4  | 46 |
| 282 | Targeting G-quadruplex DNA as cognitive function therapy for ATR-X syndrome. <i>Nature Medicine</i> , <b>2018</b> , 24, 802-813   | 50.5 | 46 |
| 281 | Sigma1-receptor stimulation with fluvoxamine ameliorates transverse aortic constriction-induced myocardial hypertrophy and dysfunction in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 299, H1535-45                                | 5.2  | 45 |
| 280 | Endothelium-Derived Semaphorin 3G Regulates Hippocampal Synaptic Structure and Plasticity via Neuropilin-2/PlexinA4. <i>Neuron</i> , <b>2019</b> , 101, 920-937.e13   | 13.9 | 42 |
| 279 | Down-regulation of Bcl-2 enhances autophagy activation and cell death induced by mitochondrial dysfunction in rat striatum. <i>Journal of Neuroscience Research</i> , <b>2009</b> , 87, 3600-10   | 4.4  | 42 |
| 278 | Cytoprotective effect of sodium orthovanadate on ischemia/reperfusion-induced injury in the rat heart involves Akt activation and inhibition of fodrin breakdown and apoptosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2004</b> , 311, 1249-55             | 4.7  | 42 |
| 277 | Identification of the isoforms of Ca(2+)/Calmodulin-dependent protein kinase II in rat astrocytes and their subcellular localization. <i>Journal of Neurochemistry</i> , <b>2000</b> , 74, 2557-67  | 6    | 42 |

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| 276 | Phosphorylation of neuronal nitric oxide synthase at Ser847 by CaM-KII in the hippocampus of rat brain after transient forebrain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2002</b> , 22, 1098-1108  | 7.3 | 42 |
| 275 | Neuroprotective effect of postischemic administration of sodium orthovanadate in rats with transient middle cerebral artery occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2003</b> , 23, 1040-1051  | 7.3 | 42 |
| 274 | Regulation of CCAAT/enhancer-binding protein family members by stimulation of glutamate receptors in cultured rat cortical astrocytes. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 23520-7   | 5.4 | 42 |
| 273 | Prominent expression and activity-dependent nuclear translocation of Ca <sup>2+</sup> /calmodulin-dependent protein kinase Idelta in hippocampal neurons. <i>European Journal of Neuroscience</i> , <b>2005</b> , 22, 2697-707   | 3.5 | 41 |
| 272 | Methyl pyruvate rescues mitochondrial damage caused by SIGMAR1 mutation related to amyotrophic lateral sclerosis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 3320-34  | 4   | 40 |
| 271 | A novel cognitive enhancer, ZSET1446/ST101, promotes hippocampal neurogenesis and ameliorates depressive behavior in olfactory bulbectomized mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2010</b> , 333, 43-50   | 4.7 | 40 |
| 270 | Spiro[imidazo[1,2-a]pyridine-3,2-indan]-2(3H)-one (ZSET1446/ST101) treatment rescues olfactory bulbectomy-induced memory impairment by activating Ca <sup>2+</sup> /calmodulin kinase II and protein kinase C in mouse hippocampus. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2008</b> , 326, 127-34 | 4.7 | 40 |
| 269 | Lithium-induced activation of Akt and CaM kinase II contributes to its neuroprotective action in a rat microsphere embolism model. <i>Brain Research</i> , <b>2006</b> , 1108, 98-106  | 3.7 | 40 |
| 268 | Glutamate-induced loss of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II activity in cultured rat hippocampal neurons. <i>Journal of Neurochemistry</i> , <b>1995</b> , 64, 2132-9   | 6   | 40 |
| 267 | Inactivation and reactivation of the multifunctional calmodulin-dependent protein kinase from brain by autophosphorylation and dephosphorylation: involvement of protein phosphatases from brain. <i>Journal of Neurochemistry</i> , <b>1987</b> , 49, 1286-92   | 6   | 40 |
| 266 | Fluvoxamine rescues mitochondrial Ca <sup>2+</sup> transport and ATP production through $\beta_1$ -receptor in hypertrophic cardiomyocytes. <i>Life Sciences</i> , <b>2014</b> , 95, 89-100  | 6.8 | 39 |
| 265 | Targeting sigma-1 receptor with fluvoxamine ameliorates pressure-overload-induced hypertrophy and dysfunctions. <i>Expert Opinion on Therapeutic Targets</i> , <b>2010</b> , 14, 1009-22   | 6.4 | 39 |
| 264 | Rivastigmine improves hippocampal neurogenesis and depression-like behaviors via 5-HT <sub>1A</sub> receptor stimulation in olfactory bulbectomized mice. <i>Neuroscience</i> , <b>2014</b> , 272, 116-30  | 3.9 | 38 |
| 263 | The role of SIGMAR1 gene mutation and mitochondrial dysfunction in amyotrophic lateral sclerosis. <i>Journal of Pharmacological Sciences</i> , <b>2015</b> , 127, 36-41  | 3.7 | 38 |
| 262 | Downregulation of glutamate transporters is associated with elevation in extracellular glutamate concentration following rat microsphere embolism. <i>Neuroscience Letters</i> , <b>2008</b> , 430, 275-80   | 3.3 | 38 |
| 261 | Activation of HtrA2, a mitochondrial serine protease mediates apoptosis: current knowledge on HtrA2 mediated myocardial ischemia/reperfusion injury. <i>Cardiovascular Therapeutics</i> , <b>2008</b> , 26, 224-32   | 3.3 | 38 |
| 260 | Mitogen-activated protein kinase activation by stimulation with thyrotropin-releasing hormone in rat pituitary GH3 cells. <i>Biology of Reproduction</i> , <b>1999</b> , 61, 319-25  | 3.9 | 38 |
| 259 | Bis(1-oxy-2-pyridinethiolato)oxovanadium(IV) enhances neurogenesis via phosphatidylinositol 3-kinase/Akt and extracellular signal regulated kinase activation in the hippocampal subgranular zone after mouse focal cerebral ischemia. <i>Neuroscience</i> , <b>2008</b> , 155, 876-87                                       | 3.9 | 37 |

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|-----|---|------|----|
| 258 | Regulation of CaMKII by alpha4/PP2Ac contributes to learning and memory. <i>Brain Research</i> , <b>2006</b> , 1082, 1-10   | 3.7  | 37 |
| 257 | Distinct spatiotemporal expression of EFA6D, a guanine nucleotide exchange factor for ARF6, among the EFA6 family in mouse brain. <i>Brain Research</i> , <b>2006</b> , 1093, 1-11  | 3.7  | 37 |
| 256 | Analysis on the promoter region of exon IV brain-derived neurotrophic factor in NG108-15 cells. <i>Journal of Neurochemistry</i> , <b>2002</b> , 83, 67-79  | 6    | 37 |
| 255 | Cloning from insulinoma cells of synapsin I associated with insulin secretory granules. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 2053-9  | 5.4  | 37 |
| 254 | Targeting sigma-1 receptor signaling by endogenous ligands for cardioprotection. <i>Expert Opinion on Therapeutic Targets</i> , <b>2011</b> , 15, 145-55  | 6.4  | 36 |
| 253 | Differential regulation of pituitary hormone secretion and gene expression by thyrotropin-releasing hormone. A role for mitogen-activated protein kinase signaling cascade in rat pituitary GH3 cells. <i>Biology of Reproduction</i> , <b>2002</b> , 67, 107-13                              | 3.9  | 36 |
| 252 | Differential effects of a calcineurin inhibitor on glutamate-induced phosphorylation of Ca <sup>2+</sup> /calmodulin-dependent protein kinases in cultured rat hippocampal neurons. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 9061-7  | 5.4  | 36 |
| 251 | Stimulation of Sigma-1 Receptor Ameliorates Depressive-like Behaviors in CaMKIV Null Mice. <i>Molecular Neurobiology</i> , <b>2015</b> , 52, 1210-1222  | 6.2  | 35 |
| 250 | Melatonin reverses the decreases in hippocampal protein serine/threonine kinases observed in an animal model of autism. <i>Journal of Pineal Research</i> , <b>2014</b> , 56, 1-11  | 10.4 | 35 |
| 249 | Neuroprotective effects of prostaglandin A(1) in rat models of permanent focal cerebral ischemia are associated with nuclear factor-kappaB inhibition and peroxisome proliferator-activated receptor-gamma up-regulation. <i>Journal of Neuroscience Research</i> , <b>2008</b> , 86, 1132-41 | 4.4  | 35 |
| 248 | The ß-secretase blocker DAPT reduces the permeability of the blood-brain barrier by decreasing the ubiquitination and degradation of occludin during permanent brain ischemia. <i>CNS Neuroscience and Therapeutics</i> , <b>2013</b> , 19, 53-60   | 6.8  | 33 |
| 247 | The induction of reactive oxygen species and loss of mitochondrial Omi/HtrA2 is associated with S-nitrosoglutathione-induced apoptosis in human endothelial cells. <i>Toxicology and Applied Pharmacology</i> , <b>2010</b> , 244, 374-84   | 4.6  | 33 |
| 246 | Enhanced activation of Ca <sup>2+</sup> /calmodulin-dependent protein kinase II upon downregulation of cyclin-dependent kinase 5-p35. <i>Journal of Neuroscience Research</i> , <b>2006</b> , 84, 747-54  | 4.4  | 33 |
| 245 | Involvement of mitogen-activated protein kinase in cyclic adenosine 3',5'-monophosphate-induced hormone gene expression in rat pituitary GH(3) cells. <i>Endocrinology</i> , <b>2001</b> , 142, 2811-9  | 4.8  | 33 |
| 244 | Sigma-1 receptor stimulation with fluvoxamine activates Akt-eNOS signaling in the thoracic aorta of ovariectomized rats with abdominal aortic banding. <i>European Journal of Pharmacology</i> , <b>2011</b> , 650, 621-8   | 5.3  | 32 |
| 243 | Stimulation of sigma-1 receptor signaling by dehydroepiandrosterone ameliorates pressure overload-induced hypertrophy and dysfunctions in ovariectomized rats. <i>Expert Opinion on Therapeutic Targets</i> , <b>2009</b> , 13, 1253-65   | 6.4  | 32 |
| 242 | Differential regulation of NF-kappaB, SRE and CRE by dopamine D1 and D2 receptors in transfected NG108-15 cells. <i>Journal of Neurochemistry</i> , <b>2003</b> , 85, 729-39  | 6    | 32 |
| 241 | Phosphorylation of myristoylated alanine-rich protein kinase C substrate by mitogen-activated protein kinase in cultured rat hippocampal neurons following stimulation of glutamate receptors. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 408-17                             | 5.4  | 32 |

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| 240 | Dehydroepiandrosterone administration improves memory deficits following transient brain ischemia through sigma-1 receptor stimulation. <i>Brain Research</i> , <b>2015</b> , 1622, 102-13   | 3.7  | 31 |
| 239 | Heparin-binding EGF-like growth factor is required for synaptic plasticity and memory formation. <i>Brain Research</i> , <b>2011</b> , 1419, 97-104  | 3.7  | 31 |
| 238 | Targeting nitrosative stress for neurovascular protection: new implications in brain diseases. <i>Current Drug Targets</i> , <b>2012</b> , 13, 272-84  | 3    | 31 |
| 237 | Stimulation of $\beta$ -receptor restores abnormal mitochondrial $Ca^{2+}$ mobilization and ATP production following cardiac hypertrophy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 3082-94  | 4    | 30 |
| 236 | In vivo two-photon fluorescence microscopy reveals disturbed cerebral capillary blood flow and increased susceptibility to ischemic insults in diabetic mice. <i>CNS Neuroscience and Therapeutics</i> , <b>2014</b> , 20, 816-22  | 6.8  | 30 |
| 235 | Novel cognitive enhancer ST101 enhances acetylcholine release in mouse dorsal hippocampus through T-type voltage-gated calcium channel stimulation. <i>Journal of Pharmacological Sciences</i> , <b>2013</b> , 121, 212-26   | 3.7  | 30 |
| 234 | Melatonin ameliorates ischemic-like injury-evoked nitrosative stress: Involvement of HtrA2/PED pathways in endothelial cells. <i>Journal of Pineal Research</i> , <b>2011</b> , 50, 281-91   | 10.4 | 30 |
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| 232 | Regulation of insulin secretion by overexpression of $Ca^{2+}$ /calmodulin-dependent protein kinase II in insulinoma MIN6 cells. <i>Endocrinology</i> , <b>2000</b> , 141, 2350-60   | 4.8  | 30 |
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