Chi Bun Chan

List of Publications by Year
in descending order

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59 papers	2,616 citations	236925 25 h-index	189892 50 g-index
60 all docs	60 docs citations	60 times ranked	4031 citing authors

#	Article	IF	Citations
1	Excess Phosphoinositide 3-Kinase Subunit Synthesis and Activity as a Novel Therapeutic Target in Fragile X Syndrome. Journal of Neuroscience, 2010, 30, 10624-10638.	3.6	219
2	7,8-Dihydroxyflavone Prevents Synaptic Loss and Memory Deficits in a Mouse Model of Alzheimerâ€™s Disease. Neuropsychopharmacology, 2014, 39, 638-650.	5.4	198
3	A Synthetic 7,8-Dihydroxyflavone Derivative Promotes Neurogenesis and Exhibits Potent Antidepressant Effect. Journal of Medicinal Chemistry, 2010, 53, 8274-8286.	6.4	182
4	The co-existence of two growth hormone receptors in teleost fish and their differential signal transduction, tissue distribution and hormonal regulation of expression in seabream. Journal of Molecular Endocrinology, 2006, 36, 23-40.	2.5	151
5	Sex differences in brainâ€derived neurotrophic factor signaling and functions. Journal of Neuroscience Research, 2017, 95, 328-335.	2.9	130
6	7,8-dihydroxyflavone, a small molecular TrkB agonist, is useful for treating various BDNF-implicated human disorders. Translational Neurodegeneration, 2016, 5, 2.	8.0	129
7	Amitriptyline is a TrkA and TrkB Receptor Agonist that Promotes TrkA/TrkB Heterodimerization and Has Potent Neurotrophic Activity. Chemistry and Biology, 2009, 16, 644-656.	6.0	117
8	Increased Expression of the PI3K Enhancer PIKE Mediates Deficits in Synaptic Plasticity and Behavior in Fragile X Syndrome. Cell Reports, 2015, 11, 727-736.	6.4	97
9	Netrin-1 mediates neuronal survival through PIKE-L interaction with the dependence receptor UNC5B. Nature Cell Biology, 2008, 10, 698-706.	10.3	94
10	Biochemical and Biophysical Investigation of the Brain-derived Neurotrophic Factor Mimetic 7,8-Dihydroxyflavone in the Binding and Activation of the TrkB Receptor. Journal of Biological Chemistry, 2014, 289, 27571-27584.	3.4	88
11	Deoxygedunin, a Natural Product with Potent Neurotrophic Activity in Mice. PLoS ONE, 2010, 5, e11528.	2.5	87
12	Mice lacking asparaginyl endopeptidase develop disorders resembling hemophagocytic syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 468-473.	7.1	67
13	Activation of Muscular TrkB by its Small Molecular Agonist 7,8-Dihydroxyflavone Sex-Dependently Regulates Energy Metabolism in Diet-Induced Obese Mice. Chemistry and Biology, 2015, 22, 355-368.	6.0	62
14	Molecular cloning and expression studies of a prolactin receptor in goldfish (Carassius auratus). Life Sciences, 2000, 66, 593-605.	4.3	58
15	Optimization of a Small Tropomyosin-Related Kinase B (TrkB) Agonist 7,8-Dihydroxyflavone Active in Mouse Models of Depression. Journal of Medicinal Chemistry, 2012, 55, 8524-8537.	6.4	54
16	SRPK2 Phosphorylates Tau and Mediates the Cognitive Defects in Alzheimer's Disease. Journal of Neuroscience, 2012, 32, 17262-17272.	3.6	53
17	Phosphoinositide 3-Kinase Enhancer Regulates Neuronal Dendritogenesis and Survival in Neocortex. Journal of Neuroscience, 2011, 31, 8083-8092.	3.6	50
18	Muscle-generated BDNF is a sexually dimorphic myokine that controls metabolic flexibility. Science Signaling, 2019, 12, .	3.6	50

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19	Identification of a Small Molecular Insulin Receptor Agonist With Potent Antidiabetes Activity. Diabetes, 2014, 63, 1394-1409.	0.6	45
20	BDNF mimetic alleviates body weight gain in obese mice by enhancing mitochondrial biogenesis in skeletal muscle. Metabolism: Clinical and Experimental, 2018, 87, 113-122.	3.4	44
21	The presence of two distinct prolactin receptors in seabream with different tissue distribution patterns, signal transduction pathways and regulation of gene expression by steroid hormones. Journal of Endocrinology, 2007, 194, 373-392.	2.6	32
22	Muscle-generated BDNF (brain derived neurotrophic factor) maintains mitochondrial quality control in female mice. Autophagy, 2022, 18, 1367-1384.	9.1	32
23	PIKE-A is required for prolactin-mediated STAT5a activation in mammary gland development. EMBO Journal, 2010, 29, 956-968.	7.8	31
24	Identification of a Molecular Activator for Insulin Receptor with Potent Anti-diabetic Effects. Journal of Biological Chemistry, 2011, 286, 37379-37388.	3.4	30
25	Phosphorylation of MITF by AKT affects its downstream targets and causes TP53-dependent cell senescence. International Journal of Biochemistry and Cell Biology, 2016, 80, 132-142.	2.8	30
26	Fyn-phosphorylated PIKE-A binds and inhibits AMPK signaling, blocking its tumor suppressive activity. Cell Death and Differentiation, 2016, 23, 52-63.	11.2	27
27	Tumor Necrosis Factor-Î± Promotes Phosphoinositide 3-Kinase Enhancer A and AMP-Activated Protein Kinase Interaction to Suppress Lipid Oxidation in Skeletal Muscle. Diabetes, 2017, 66, 1858-1870.	0.6	26
28	NGF inhibits human leukemia proliferation by downregulating cyclin A1 expression through promoting acinus/CtBP2 association. Oncogene, 2009, 28, 3825-3836.	5.9	24
29	Deficiency of Phosphoinositide 3-Kinase Enhancer Protects Mice From Diet-Induced Obesity and Insulin Resistance. Diabetes, 2010, 59, 883-893.	0.6	24
30	Site-directed MT1-MMP trafficking and surface insertion regulate AChR clustering and remodeling at developing NMJs. ELife, 2020, 9, .	6.0	24
31	Blockade of Glioma Proliferation Through Allosteric Inhibition of JAK2. Science Signaling, 2013, 6, ra55.	3.6	23
32	Interaction of CREB and PGC-1Î± Induces Fibronectin Type III Domain-Containing Protein 5 Expression in C2C12 Myotubes. Cellular Physiology and Biochemistry, 2018, 50, 1574-1584.	1.6	23
33	The constitutive activity of the ghrelin receptor attenuates apoptosis via a protein kinase C-dependent pathway. Molecular and Cellular Endocrinology, 2009, 299, 232-239.	3.2	22
34	PIKE-mediated PI3-kinase activity is required for AMPA receptor surface expression. EMBO Journal, 2011, 30, 4274-4286.	7.8	21
35	PIKE GTPase are phosphoinositide-3-kinase enhancers, suppressing programmed cell deathPIKE GTPase are phosphoinositide-3-kinase enhancers, suppressing programmed cell death. Journal of Cellular and Molecular Medicine, 2007, 11, 39-53.	3.6	19
36	The C-ETS2-TFEB Axis Promotes Neuron Survival under Oxidative Stress by Regulating Lysosome Activity. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-16.	4.0	19

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37	Cellular energy stress induces AMPK-mediated regulation of glioblastoma cell proliferation by PIKE-A phosphorylation. Cell Death and Disease, 2019, 10, 222.	6.3	19
38	Fyn Regulates Adipogenesis by Promoting PIKE-A/STAT5a Interaction. Molecular and Cellular Biology, 2013, 33, 1797-1808.	2.3	17
39	Establishment of a transgenic yeast screening system for estrogenicity and identification of the antiâ€estrogenic activity of malachite green. Journal of Cellular Biochemistry, 2008, 105, 1399-1409.	2.6	16
40	Mechanisms for Temperature Modulation of Feeding in Goldfish and Implications on Seasonal Changes in Feeding Behavior and Food Intake. Frontiers in Endocrinology, 2019, 10, 133.	3.5	16
41	Mitochondria Homeostasis and Oxidant/Antioxidant Balance in Skeletal Muscleâ€"Do Myokines Play a Role?. Antioxidants, 2021, 10, 179.	5.1	15
42	Serine-arginine protein kinases: new players in neurodegenerative diseases?. Reviews in the Neurosciences, 2013, 24, 401-13.	2.9	14
43	Developing Insulin and BDNF Mimetics for Diabetes Therapy. Current Topics in Medicinal Chemistry, 2019, 19, 2188-2204.	2.1	14
44	PIKE is essential for oligodendroglia development and CNS myelination. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1993-1998.	7.1	13
45	Effects of fasting on the expression pattern of FGFs in different skeletal muscle fibre types and sexes in mice. Biology of Sex Differences, 2020, 11, 9.	4.1	12
46	The association of phosphoinositide 3â€kinase enhancer A with hepatic insulin receptor enhances its kinase activity. EMBO Reports, 2011, 12, 847-854.	4.5	11
47	Acridine Yellow G Blocks Glioblastoma Growth via Dual Inhibition of Epidermal Growth Factor Receptor and Protein Kinase C Kinases. Journal of Biological Chemistry, 2012, 287, 6113-6127.	3.4	11
48	Essential role of PIKE GTPases in neuronal protection against excitotoxic insults. Advances in Biological Regulation, 2012, 52, 66-76.	2.3	11
49	Effect of skeletal muscle phenotype and gender on fasting-induced myokine expression in mice. Biochemical and Biophysical Research Communications, 2019, 514, 407-414.	2.1	11
50	Src homology 3 domain binding kinase 1 protects against hepatic steatosis and insulin resistance through the Nur77â€"FGF21 pathway. Hepatology, 2023, 77, 213-229.	7.3	10
51	Stimulation of growth hormone secretion from seabream pituitary cells in primary culture by growth hormone secretagogues is independent of growth hormone transcription. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2004, 139, 77-85.	2.6	8
52	Multiple Functions of Phosphoinositide-3 Kinase Enhancer (PIKE). Scientific World Journal, The, 2010, 10, 613-623.	2.1	8
53	Phosphoinositide 3-kinase enhancer (PIKE) in the brain: is it simply a phosphoinositide 3-kinase/Akt enhancer?. Reviews in the Neurosciences, 2012, 23, 153-61.	2.9	8
54	Rab13 Sustains Breast Cancer Stem Cells by Supporting Tumorâ€"Stroma Cross-talk. Cancer Research, 2022, 82, 2124-2140.	0.9	8

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55	Is Brain-Derived Neurotrophic Factor a Metabolic Hormone in Peripheral Tissues?. Biology, 2022, 11, 1063.	2.8	7
56	Signal Transduction for TNFÎ±-Induced Type II SOCS Expression and Its Functional Implication in Growth Hormone Resistance in Carp Hepatocytes. Frontiers in Endocrinology, 2020, 11, 20.	3.5	4
57	Identification of a molecular activator for insulin receptor with potent anti-diabetic effects.. Journal of Biological Chemistry, 2012, 287, 13050.	3.4	1
58	Podosome-directed MT1-MMP trafficking and surface insertion regulate AChR clustering & remodeling. IBRO Reports, 2019, 6, S544.	0.3	0
59	What we have learnt about PIKE from the knockout mice. International Journal of Biochemistry and Molecular Biology, 2011, 2, 228-39.	0.1	0