

Cary Lai

List of Publications by Year in descending order

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46
papers

7,561
citations

159585

30
h-index

233421

45
g-index

47
all docs

47
docs citations

47
times ranked

7645
citing authors

#	ARTICLE	IF	CITATIONS
1	Aberrant neural and cardiac development in mice lacking the ErbB4 neuregulin receptor. <i>Nature</i> , 1995, 378, 390-394.	27.8	1,033
2	Axonal Neuregulin-1 Regulates Myelin Sheath Thickness. <i>Science</i> , 2004, 304, 700-703.	12.6	821
3	The anticoagulation factor protein S and its relative, Gas6, are ligands for the Tyro 3/Axl family of receptor tyrosine kinases. <i>Cell</i> , 1995, 80, 661-670.	28.9	702
4	Tyro-3 family receptors are essential regulators of mammalian spermatogenesis. <i>Nature</i> , 1999, 398, 723-728.	27.8	458
5	An extended family of protein-tyrosine kinase genes differentially expressed in the vertebrate nervous system. <i>Neuron</i> , 1991, 6, 691-704.	8.1	433
6	Short- and Long-Range Attraction of Cortical GABAergic Interneurons by Neuregulin-1. <i>Neuron</i> , 2004, 44, 251-261.	8.1	383
7	Neuregulin-2, a new ligand of ErbB3/ErbB4-receptor tyrosine kinases. <i>Nature</i> , 1997, 387, 512-516.	27.8	370
8	Neuregulin-1/ErbB Signaling Serves Distinct Functions in Myelination of the Peripheral and Central Nervous System. <i>Neuron</i> , 2008, 59, 581-595.	8.1	321
9	Neuregulin 1 regulates pyramidal neuron activity via ErbB4 in parvalbumin-positive interneurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1211-1216.	7.1	281
10	Neuregulin-1 Enhances Depolarization-Induced GABA Release. <i>Neuron</i> , 2007, 54, 599-610.	8.1	279
11	Receptor tyrosine kinase ErbB4 modulates neuroblast migration and placement in the adult forebrain. <i>Nature Neuroscience</i> , 2004, 7, 1319-1328.	14.8	233
12	ErbB4 in parvalbumin-positive interneurons is critical for neuregulin 1 regulation of long-term potentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 21818-21823.	7.1	221
13	Neural Development of the Neuregulin Receptor ErbB4 in the Cerebral Cortex and the Hippocampus: Preferential Expression by Interneurons Tangentially Migrating from the Ganglionic Eminences. <i>Cerebral Cortex</i> , 2003, 13, 252-264.	2.9	194
14	Neuronal migration in the adult brain: are we there yet?. <i>Nature Reviews Neuroscience</i> , 2007, 8, 141-151.	10.2	165
15	Role of neuregulins in glial cell development. , 2000, 29, 104-111.		158
16	The role of neuregulin-ErbB4 interactions on the proliferation and organization of cells in the subventricular zone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1930-1935.	7.1	158
17	An Evolutionarily Conserved Transmembrane Protein That Is a Novel Downstream Target of Neurotrophin and Ephrin Receptors. <i>Journal of Neuroscience</i> , 2001, 21, 176-185.	3.6	154
18	Dilated cardiomyopathy in Erb-b4-deficient ventricular muscle. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H1153-H1160.	3.2	115

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19	Gas6, a ligand for the receptor protein-tyrosine kinase Tyro-3, is widely expressed in the central nervous system1Published on the World Wide Web on 2 December 1998.1. Brain Research, 1999, 816, 646-661.	2.2	104
20	Ligand Discrimination in Signaling through an ErbB4 Receptor Homodimer. Journal of Biological Chemistry, 2000, 275, 19803-19807.	3.4	104
21	Expression of the receptor protein-tyrosine kinases Tyro-3, Axl, and Mer in the developing rat central nervous system. Journal of Comparative Neurology, 2000, 425, 295-314.	1.6	102
22	ErbB4 regulation of a thalamic reticular nucleus circuit for sensory selection. Nature Neuroscience, 2015, 18, 104-111.	14.8	101
23	Neuregulin-1/ErbB4 Signaling Regulates Visual Cortical Plasticity. Neuron, 2016, 92, 160-173.	8.1	91
24	Differential Signaling by the Epidermal Growth Factor-like Growth Factors Neuregulin-1 and Neuregulin-2. Journal of Biological Chemistry, 1998, 273, 26954-26961.	3.4	76
25	Interneuronal DISC1 regulates NRG1-ErbB4 signalling and excitatoryâ€“inhibitory synapse formation in the mature cortex. Nature Communications, 2015, 6, 10118.	12.8	62
26	Neural Protein 1B236/Myelin-Associated Glycoprotein (MAG) Defines a Subgroup of the Immunoglobulin Superfamily. Immunological Reviews, 1987, 100, 129-151.	6.0	54
27	The peroxisome proliferator-activated receptor $\hat{1}^3$ is an inhibitor of ErbBs activity in human breast cancer cells. Journal of Cell Science, 2001, 114, 4117-4126.	2.0	44
28	Cross-Phosphorylation, Signaling and Proliferative Functions of the Tyro3 and Axl Receptors in Rat2 Cells. PLoS ONE, 2012, 7, e36800.	2.5	41
29	Neuregulin-2 is synthesized by motor neurons and terminal Schwann cells and activates acetylcholine receptor transcription in muscle cells expressing ErbB4. Molecular and Cellular Neurosciences, 2004, 26, 271-281.	2.2	40
30	Subanesthetic Ketamine Reactivates Adult Cortical Plasticity to Restore Vision from Amblyopia. Current Biology, 2020, 30, 3591-3603.e8.	3.9	38
31	Novel and Known Protein Tyrosine Kinases and Their Abnormal Expression in Human Melanoma. Journal of Investigative Dermatology, 1993, 101, 679-684.	0.7	35
32	Deficient NRG1-ERBB signaling alters social approach: relevance to genetic mouse models of schizophrenia. Journal of Neurodevelopmental Disorders, 2009, 1, 302-312.	3.1	32
33	Rat oligodendroglia express c-met and focal adhesion kinase, protein tyrosine kinases implicated in regulating epithelial cell motility. Neuroscience Letters, 2000, 279, 5-8.	2.1	26
34	Peripheral Glia: Schwann Cells in Motion. Current Biology, 2005, 15, R332-R334.	3.9	25
35	Stimulation of cell proliferation in the subventricular zone by synthetic murine pheromones. Frontiers in Behavioral Neuroscience, 2013, 7, 101.	2.0	22
36	Neuregulin signaling mediates the acute and sustained antidepressant effects of subanesthetic ketamine. Translational Psychiatry, 2021, 11, 144.	4.8	18

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37	Neuregulin and ErbB expression is regulated by development and sensory experience in mouse visual cortex. <i>Journal of Comparative Neurology</i> , 2020, 528, 419-432.	1.6	11
38	Schwann cell-derived neuregulin-2 [±] can function as a cell-attached activator of muscle acetylcholine receptor expression. <i>Glia</i> , 2006, 54, 630-637.	4.9	10
39	Pheromone-induced cell proliferation in the murine subventricular zone. <i>Biochemical Society Transactions</i> , 2014, 42, 882-885.	3.4	8
40	Cross-generational impact of a male murine pheromone 2-sec-butyl-4,5-dihydrothiazole in female mice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151074.	2.6	8
41	Developmental expression of Neuregulin β 3 in the rat central nervous system. <i>Journal of Comparative Neurology</i> , 2019, 527, 797-817.	1.6	8
42	Organization of Myelin Protein Genes: Myelin-Associated Glycoprotein. <i>Annals of the New York Academy of Sciences</i> , 1990, 605, 254-261.	3.8	7
43	Neuregulins 1, 2, and 3 Promote Early Neurite Outgrowth in ErbB4-Expressing Cortical GABAergic Interneurons. <i>Molecular Neurobiology</i> , 2020, 57, 3568-3588.	4.0	7
44	Mapping of the receptor protein-tyrosine kinase 10 to human chromosome 1q21 \rightarrow q23 and mouse chromosome 1H1 \rightarrow 5 by fluorescence in situ hybridization. <i>Genomics</i> , 1995, 25, 337-339.	2.9	5
45	Expression of the receptor protein \rightarrow tyrosine kinases Tyro β , Axl, and Mer in the developing rat central nervous system. <i>Journal of Comparative Neurology</i> , 2000, 425, 295-314.	1.6	1
46	Developmental Disruption of ErbB4 in Pet1+ Neurons Impairs Serotonergic Sub-System Connectivity and Memory Formation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 770458.	3.7	1