

# Hwai-Jong Cheng

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

4,553  
citations

218677

26  
h-index

289244

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4497  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complementary gradients in expression and binding of ELF-1 and Mek4 in development of the topographic retinotectal projection map. <i>Cell</i> , 1995, 82, 371-381.	28.9	725
2	Disrupted-In-Schizophrenia 1 Regulates Integration of Newly Generated Neurons in the Adult Brain. <i>Cell</i> , 2007, 130, 1146-1158.	28.9	576
3	Topographically Specific Effects of ELF-1 on Retinal Axon Guidance In Vitro and Retinal Axon Mapping In Vivo. <i>Cell</i> , 1996, 86, 755-766.	28.9	424
4	Identification and cloning of ELF-1, a developmentally expressed ligand for the Mek4 and Sek receptor tyrosine kinases. <i>Cell</i> , 1994, 79, 157-168.	28.9	364
5	Stereotyped Pruning of Long Hippocampal Axon Branches Triggered by Retraction Inducers of the Semaphorin Family. <i>Cell</i> , 2003, 113, 285-299.	28.9	281
6	Axon pruning: an essential step underlying the developmental plasticity of neuronal connections. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1531-1544.	4.0	228
7	Plexin-A3 Mediates Semaphorin Signaling and Regulates the Development of Hippocampal Axonal Projections. <i>Neuron</i> , 2001, 32, 249-263.	8.1	206
8	Differential Requirement for Plexin-A3 and -A4 in Mediating Responses of Sensory and Sympathetic Neurons to Distinct Class 3 Semaphorins. <i>Neuron</i> , 2005, 45, 513-523.	8.1	199
9	Development of hippocampal mossy fiber synaptic outputs by new neurons in the adult brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 14157-14162.	7.1	186
10	ELF-2, a New Member of the Eph Ligand Family, Is Segmentally Expressed in Mouse Embryos in the Region of the Hindbrain and Newly Forming Somites. <i>Molecular and Cellular Biology</i> , 1995, 15, 4921-4929.	2.3	162
11	MAX-1, a Novel PH/MyTH4/FERM Domain Cytoplasmic Protein Implicated in Netrin-Mediated Axon Repulsion. <i>Neuron</i> , 2002, 34, 563-576.	8.1	109
12	Alkaline phosphatase fusions of ligands or receptors as in situ probes for staining of cells, tissues, and embryos. <i>Methods in Enzymology</i> , 2000, 327, 19-35.	1.0	107
13	Guidance Molecules in Axon Pruning and Cell Death. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a001859-a001859.	5.5	106
14	Stereotyped Axon Pruning via Plexin Signaling Is Associated with Synaptic Complex Elimination in the Hippocampus. <i>Journal of Neuroscience</i> , 2005, 25, 9124-9134.	3.6	84
15	Plexin signaling selectively regulates the stereotyped pruning of corticospinal axons from visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8136-8141.	7.1	80
16	Alkaline phosphatase fusion proteins for molecular characterization and cloning of receptors and their ligands. <i>Methods in Enzymology</i> , 2000, 327, 198-210.	1.0	63
17	Disrupted-in-Schizophrenia 1-mediated axon guidance involves TRIO-RAC-PAK small GTPase pathway signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5861-5866.	7.1	63
18	Plexin A3 and plexin A4 convey semaphorin signals during facial nerve development. <i>Developmental Biology</i> , 2008, 324, 1-9.	2.0	60

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19	The <i>Caenorhabditis elegans</i> P21-activated kinases are differentially required for UNC-6/netrin-mediated commissural motor axon guidance. <i>Development (Cambridge)</i> , 2006, 133, 4549-4559.	2.5	56
20	A RAC/CDC-42-Independent GIT/PIX/PAK Signaling Pathway Mediates Cell Migration in <i>C. elegans</i> . <i>PLoS Genetics</i> , 2008, 4, e1000269.	3.5	53
21	Sema3E/Plexin-D1 Mediated Epithelial-to-Mesenchymal Transition in Ovarian Endometrioid Cancer. <i>PLoS ONE</i> , 2011, 6, e19396.	2.5	53
22	Dorsal turning of motor corticospinal axons at the pyramidal decussation requires plexin signaling. <i>Neural Development</i> , 2008, 3, 21.	2.4	50
23	ARL4, an ARF-like Protein That Is Developmentally Regulated and Localized to Nuclei and Nucleoli. <i>Journal of Biological Chemistry</i> , 2000, 275, 37815-37823.	3.4	46
24	Plexin-A3 and plexin-A4 restrict the migration of sympathetic neurons but not their neural crest precursors. <i>Developmental Biology</i> , 2008, 315, 448-458.	2.0	40
25	Axon Pruning and Synaptic Development: How Are They per-Plexin?. <i>Neuroscientist</i> , 2006, 12, 398-409.	3.5	35
26	Functions of axon guidance molecules in synapse formation. <i>Current Opinion in Neurobiology</i> , 2009, 19, 471-478.	4.2	28
27	Axon Pruning in the Developing Vertebrate Hippocampus. <i>Developmental Neuroscience</i> , 2007, 29, 6-13.	2.0	27
28	Semaphorin signaling facilitates cleft formation in the developing salivary gland. <i>Development (Cambridge)</i> , 2007, 134, 2935-2945.	2.5	26
29	A little nip and tuck: axon refinement during development and axonal injury. <i>Current Opinion in Neurobiology</i> , 2005, 15, 549-556.	4.2	24
30	Emergence of Lamina-Specific Retinal Ganglion Cell Connectivity by Axon Arbor Retraction and Synapse Elimination. <i>Journal of Neuroscience</i> , 2010, 30, 16376-16382.	3.6	19
31	Increasing Spontaneous Retinal Activity before Eye Opening Accelerates the Development of Geniculate Receptive Fields. <i>Journal of Neuroscience</i> , 2015, 35, 14612-14623.	3.6	14
32	Eye-specific retinogeniculate segregation proceeds normally following disruption of patterned spontaneous retinal activity. <i>Neural Development</i> , 2014, 9, 25.	2.4	13
33	Cloning and Characterization of RTK Ligands Using Receptor-Alkaline Phosphatase Fusion Proteins. , 2001, 124, 313-334.		9
34	Age-Related Changes in Synaptic Plasticity Associated with Mossy Fiber Terminal Integration during Adult Neurogenesis. <i>ENeuro</i> , 2020, 7, ENEURO.0030-20.2020.	1.9	9
35	Blm-s , a BH3-Only Protein Enriched in Postmitotic Immature Neurons, Is Transcriptionally Upregulated by p53 during DNA Damage. <i>Cell Reports</i> , 2014, 9, 166-179.	6.4	6
36	Retinal waves regulate afferent terminal targeting in the early visual pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2957-66.	7.1	6

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37	Monocular enucleation alters retinal waves in the surviving eye. <i>Neural Development</i> , 2018, 13, 4.	2.4	5
38	Deal Breaker: Semaphorin and Specificity in the Spinal Stretch Reflex Circuit. <i>Neuron</i> , 2009, 63, 8-11.	8.1	4
39	Epibatidine Blocks Eye-Specific Segregation in Ferret Dorsal Lateral Geniculate Nucleus during Stage III Retinal Waves. <i>PLoS ONE</i> , 2015, 10, e0118783.	2.5	4
40	Regulation of axon repulsion by MAX-1 SUMOylation and AP-3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8236-E8245.	7.1	2