Kai Zinn

List of Publications by Year
in descending order

51 papers	2,946 citations	236925 25 h-index	189892 50 g-index
73 all docs	73 docs citations	73 times ranked	2834 citing authors

#	Article	IF	Citations
1	Sticks and Stones, a conserved cell surface ligand for the Type IIa RPTP Lar, regulates neural circuit wiring in Drosophila. ELife, 2022, 11, .	6.0	7
2	Affinity requirements for control of synaptic targeting and neuronal cell survival by heterophilic IgSF cell adhesion molecules. Cell Reports, 2022, 39, 110618.	6.4	9
3	Investigation of Drosophila fruitless neurons that express Dpr/DIP cell adhesion molecules. ELife, 2021, 10, .	6.0	16
4	A Human IgSF Cell-Surface Interactome Reveals a Complex Network of Protein-Protein Interactions. Cell, 2020, 182, 1027-1043.e17.	28.9	57
5	WASH phosphorylation balances endosomal versus cortical actin network integrities during epithelial morphogenesis. Nature Communications, 2019, 10, 2193.	12.8	24
6	Family of neural wiring receptors in bilaterians defined by phylogenetic, biochemical, and structural evidence. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9837-9842.	7.1	21
7	Transsynaptic interactions between IgSF proteins DIP-Î± and Dpr10 are required for motor neuron targeting specificity. ELife, 2019, 8, .	6.0	42
8	Interactions between Dpr11 and DIP-Î³ control selection of amacrine neurons in Drosophila color vision circuits. ELife, 2019, 8, .	6.0	46
9	Visualization of binding patterns for five Leucine-rich repeat proteins in the embryo. MicroPublication Biology, 2019, 2019, .	0.1	1
10	Identification of four Drosophila Toll-related proteins as ligands for the PTP69D receptor tyrosine phosphatase. MicroPublication Biology, 2019, 2019, .	0.1	3
11	Identification and characterization of mushroom body neurons that regulate fat storage in Drosophila. Neural Development, 2018, 13, 18.	2.4	20
12	Neural immunoglobulin superfamily interaction networks. Current Opinion in Neurobiology, 2017, 45, 99-105.	4.2	50
13	Modeling and analysis of modular structure in diverse biological networks. Journal of Theoretical Biology, 2017, 422, 18-30.	1.7	6
14	Deconstruction of the beaten Path-Sidestep interaction network provides insights into neuromuscular system development. ELife, 2017, 6, .	6.0	41
15	Live Staining of Drosophila Embryos with RPTP Fusion Proteins to Detect and Characterize Expression of Cell-Surface RPTP Ligands. Methods in Molecular Biology, 2016, 1447, 373-384.	0.9	6
16	Building a ladder to Hershey Heaven. ELife, 2016, 5, .	6.0	0
17	Control of Synaptic Connectivity by a Network of Drosophila IgSF Cell Surface Proteins. Cell, 2015, 163, 1770-1782.	28.9	155
18	Ig Superfamily Ligand and Receptor Pairs Expressed in Synaptic Partners in Drosophila. Cell, 2015, 163, 1756-1769.	28.9	184

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19	R3 receptor tyrosine phosphatases: Conserved regulators of receptor tyrosine kinase signaling and tubular organ development. Seminars in Cell and Developmental Biology, 2015, 37, 119-126.	5.0	11
20	Experimental and Computational Analysis of a Large Protein Network That Controls Fat Storage Reveals the Design Principles of a Signaling Network. PLoS Computational Biology, 2015, 11, e1004264.	3.2	8
21	The translational regulator Cup controls NMJ presynaptic terminal morphology. Molecular and Cellular Neurosciences, 2015, 67, 126-136.	2.2	12
22	Airway branching has conserved needs for local parasympathetic innervation but not neurotransmission. BMC Biology, 2014, 12, 92.	3.8	33
23	Development and plasticity of the Drosophila larval neuromuscular junction. Wiley Interdisciplinary Reviews: Developmental Biology, 2013, 2, 647-670.	5.9	190
24	An Extracellular Interactome of Immunoglobulin and LRR Proteins Reveals Receptor-Ligand Networks. Cell, 2013, 154, 228-239.	28.9	207
25	Interactions between a Receptor Tyrosine Phosphatase and a Cell Surface Ligand Regulate Axon Guidance and Glial-Neuronal Communication. Neuron, 2013, 78, 813-826.	8.1	35
26	Interactions between Type III receptor tyrosine phosphatases and growth factor receptor tyrosine kinases regulate tracheal tube formation in Drosophila. Biology Open, 2012, 1, 548-558.	1.2	9
27	Systematic Screening of Drosophila Deficiency Mutations for Embryonic Phenotypes and Orphan Receptor Ligands. PLoS ONE, 2010, 5, e12288.	2.5	10
28	Regulation of Synaptic Pumilio Function by an Aggregation-Prone Domain. Journal of Neuroscience, 2010, 30, 515-522.	3.6	30
29	Live Dissection of Drosophila Embryos: Streamlined Methods for Screening Mutant Collections by Antibody Staining. Journal of Visualized Experiments, 2009, , .	0.3	30
30	Choosing the road less traveled by: a ligandâ€“receptor system that controls target recognition by Drosophila motor axons. Genes and Development, 2009, 23, 1042-1045.	5.9	7
31	The Cell Surface Receptor Tartan Is a Potential In Vivo Substrate for the Receptor Tyrosine Phosphatase Ptp52F. Molecular and Cellular Biology, 2009, 29, 3390-3400.	2.3	12
32	The Translational Repressors Nanos and Pumilio Have Divergent Effects on Presynaptic Terminal Growth and Postsynaptic Glutamate Receptor Subunit Composition. Journal of Neuroscience, 2009, 29, 5558-5572.	3.6	59
33	Receptor tyrosine phosphatases control tracheal tube geometries through negative regulation of Egfr signaling. Development (Cambridge), 2009, 136, 3121-3129.	2.5	26
34	Redundancy and compensation in axon guidance: genetic analysis of the Drosophila Ptp10D/Ptp4E receptor tyrosine phosphatase subfamily. Neural Development, 2008, 3, 3.	2.4	32
35	Receptor tyrosine phosphatases regulate birth order-dependent axonal fasciculation and midline repulsion during development of the Drosophila mushroom body. Molecular and Cellular Neurosciences, 2008, 38, 53-65.	2.2	25
36	A Screen of Cell-Surface Molecules Identifies Leucine-Rich Repeat Proteins as Key Mediators of Synaptic Target Selection. Neuron, 2008, 59, 972-985.	8.1	116

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37	The secreted cell signal Folded Gastrulation regulates glial morphogenesis and axon guidance in Drosophila. Developmental Biology, 2007, 308, 158-168.	2.0	12
38	Dscam and Neuronal Uniqueness. Cell, 2007, 129, 455-456.	28.9	4
39	The Heparan Sulfate Proteoglycan Syndecan Is an In Vivo Ligand for the Drosophila LAR Receptor Tyrosine Phosphatase. Current Biology, 2005, 15, 1701-1711.	3.9	139
40	Drosophila Spastin Regulates Synaptic Microtubule Networks and Is Required for Normal Motor Function. PLoS Biology, 2004, 2, e429.	5.6	227
41	Dendritic Tiling. Neuron, 2004, 44, 211-213.	8.1	9
42	The Translational Repressor Pumilio Regulates Presynaptic Morphology and Controls Postsynaptic Accumulation of Translation Factor eIF-4E. Neuron, 2004, 44, 663-676.	8.1	143
43	Complex Genetic Interactions among Four Receptor Tyrosine Phosphatases Regulate Axon Guidance in Drosophila. Molecular and Cellular Neurosciences, 2001, 17, 274-291.	2.2	53
44	Immunolocalization of synaptotagmin for the study of synapses in the developing antennal lobe ofManduca sexta. Journal of Comparative Neurology, 2001, 441, 277-287.	1.6	32
45	A gain-of-function screen for genes controlling motor axon guidance and synaptogenesis in Drosophila. Current Biology, 2001, 11, 417-430.	3.9	179
46	Regulation of CNS and motor axon guidance inDrosophilaby the receptor tyrosine phosphatase DPTP52F. Development (Cambridge), 2001, 128, 4371-4382.	2.5	50
47	Derailed axons get on track. Nature, 1999, 402, 475-476.	27.8	1
48	Tenascin-C mRNA is expressed in cranial neural crest cells, in some placodal derivatives, and in discrete domains of the embryonic zebrafish brain. Journal of Neurobiology, 1995, 28, 391-407.	3.6	30
49	Targeted mutagenesis and genetic analysis of a Drosophila receptor-linked protein tyrosine phosphatase gene. Roux's Archives of Developmental Biology, 1995, 204, 187-192.	1.2	19
50	Pair-rule expression patterns of even-skipped are found in both short- and long-germ beetles. Nature, 1994, 367, 429-434.	27.8	294
51	Three receptor-linked protein-tyrosine phosphatases are selectively expressed on central nervous system axons in the Drosophila embryo. Cell, 1991, 67, 675-685.	28.9	201