

Peter Robin Hiesinger

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,991
citations

147801

31
h-index

155660

55
g-index

91
all docs

91
docs citations

91
times ranked

6138
citing authors

#	ARTICLE	IF	CITATIONS
1	The BDGP Gene Disruption Project. <i>Genetics</i> , 2004, 167, 761-781.	2.9	774
2	Synaptojanin Is Recruited by Endophilin to Promote Synaptic Vesicle Uncoating. <i>Neuron</i> , 2003, 40, 733-748.	8.1	376
3	The v-ATPase V O Subunit a1 Is Required for a Late Step in Synaptic Vesicle Exocytosis in <i>Drosophila</i> . <i>Cell</i> , 2005, 121, 607-620.	28.9	297
4	Thirty-One Flavors of <i>Drosophila</i> Rab Proteins. <i>Genetics</i> , 2007, 176, 1307-1322.	2.9	264
5	<i>Drosophila</i> Fragile X Protein, DFXR, Regulates Neuronal Morphology and Function in the Brain. <i>Neuron</i> , 2002, 34, 961-972.	8.1	215
6	NAD synthase NMNAT acts as a chaperone to protect against neurodegeneration. <i>Nature</i> , 2008, 452, 887-891.	27.8	193
7	Lysosomal calcium homeostasis defects, not proton pump defects, cause endo-lysosomal dysfunction in PSEN-deficient cells. <i>Journal of Cell Biology</i> , 2012, 198, 23-35.	5.2	187
8	<i>Drosophila</i> VAP-33A Directs Bouton Formation at Neuromuscular Junctions in a Dosage-Dependent Manner. <i>Neuron</i> , 2002, 35, 291-306.	8.1	181
9	Rab GTPases and Membrane Trafficking in <i>Drosophila</i> Neurodegeneration. <i>Current Biology</i> , 2018, 28, R471-R486.	3.9	171
10	<i>Drosophila</i> NMNAT Maintains Neural Integrity Independent of Its NAD Synthesis Activity. <i>PLoS Biology</i> , 2006, 4, e416.	5.6	160
11	Mutations in <i>Drosophila</i> <i>sec15</i> Reveal a Function in Neuronal Targeting for a Subset of Exocyst Components. <i>Neuron</i> , 2005, 46, 219-232.	8.1	129
12	The Nicotinic Acetylcholine Receptor $\alpha 7$ Is Required for an Escape Behavior in <i>Drosophila</i> . <i>PLoS Biology</i> , 2006, 4, e63.	5.6	124
13	Systematic Discovery of Rab GTPases with Synaptic Functions in <i>Drosophila</i> . <i>Current Biology</i> , 2011, 21, 1704-1715.	3.9	122
14	A dual function of V ₀ -ATPase $\alpha 1$ provides an endolysosomal degradation mechanism in <i>Drosophila melanogaster</i> photoreceptors. <i>Journal of Cell Biology</i> , 2010, 189, 885-899.	5.2	100
15	A neurodevelopmental origin of behavioral individuality in the <i>Drosophila</i> visual system. <i>Science</i> , 2020, 367, 1112-1119.	12.6	97
16	Activity-Independent Prespecification of Synaptic Partners in the Visual Map of <i>Drosophila</i> . <i>Current Biology</i> , 2006, 16, 1835-1843.	3.9	96
17	Beyond Molecular Codes: Simple Rules to Wire Complex Brains. <i>Cell</i> , 2015, 163, 285-291.	28.9	95
18	Mapping <i>Drosophila</i> mutations with molecularly defined P element insertions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10860-10865.	7.1	89

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19	Endophilin Promotes a Late Step in Endocytosis at Glial Invaginations in <i>Drosophila</i> Photoreceptor Terminals. <i>Journal of Neuroscience</i> , 2003, 23, 10732-10744.	3.6	86
20	Filopodial dynamics and growth cone stabilization in <i>Drosophila</i> visual circuit development. <i>ELife</i> , 2015, 4, .	6.0	78
21	The synaptic maintenance problem: membrane recycling, Ca ²⁺ homeostasis and late onset degeneration. <i>Molecular Neurodegeneration</i> , 2013, 8, 23.	10.8	76
22	The Developmental Rules of Neural Superposition in <i>Drosophila</i> . <i>Cell</i> , 2015, 162, 120-133.	28.9	65
23	Membrane trafficking in neuronal maintenance and degeneration. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 2919-2934.	5.4	62
24	Charcot-Marie-Tooth 2B mutations in rab7 cause dosage-dependent neurodegeneration due to partial loss of function. <i>ELife</i> , 2013, 2, e01064.	6.0	62
25	Ca ²⁺ -Calmodulin regulates SNARE assembly and spontaneous neurotransmitter release via v-ATPase subunit VOa1. <i>Journal of Cell Biology</i> , 2014, 205, 21-31.	5.2	60
26	Live Observation of Two Parallel Membrane Degradation Pathways at Axon Terminals. <i>Current Biology</i> , 2018, 28, 1027-1038.e4.	3.9	59
27	The Evolution of Variability and Robustness in Neural Development. <i>Trends in Neurosciences</i> , 2018, 41, 577-586.	8.6	54
28	On the role of v-ATPase VOa1-dependent degradation in Alzheimer Disease. <i>Communicative and Integrative Biology</i> , 2010, 3, 604-607.	1.4	45
29	Neuropil Pattern Formation and Regulation of Cell Adhesion Molecules in <i>Drosophila</i> Optic Lobe Development Depend on Synaptobrevin. <i>Journal of Neuroscience</i> , 1999, 19, 7548-7556.	3.6	42
30	The synaptic vesicle SNARE neuronal Synaptobrevin promotes endolysosomal degradation and prevents neurodegeneration. <i>Journal of Cell Biology</i> , 2012, 196, 261-276.	5.2	40
31	Serial Synapse Formation through Filopodial Competition for Synaptic Seeding Factors. <i>Developmental Cell</i> , 2019, 50, 447-461.e8.	7.0	39
32	Regulation of branching dynamics by axon-intrinsic asymmetries in Tyrosine Kinase Receptor signaling. <i>ELife</i> , 2014, 3, e01699.	6.0	36
33	The Evolution and Development of Neural Superposition. <i>Journal of Neurogenetics</i> , 2014, 28, 216-232.	1.4	34
34	The where, what, and when of membrane protein degradation in neurons. <i>Developmental Neurobiology</i> , 2018, 78, 283-297.	3.0	34
35	V-ATPase VO Sector Subunit a1 in Neurons Is a Target of Calmodulin. <i>Journal of Biological Chemistry</i> , 2008, 283, 294-300.	3.4	33
36	Visualization of synaptic markers in the optic neuropils of <i>Drosophila</i> using a new constrained deconvolution method. <i>Journal of Comparative Neurology</i> , 2001, 429, 277-288.	1.6	32

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37	miR-124 Regulates Diverse Aspects of Rhythmic Behavior in <i>Drosophila</i> . Journal of Neuroscience, 2016, 36, 3414-3421.	3.6	32
38	The vesicular ATPase: A missing link between acidification and exocytosis. Journal of Cell Biology, 2013, 203, 171-173.	5.2	31
39	Autophagy-dependent filopodial kinetics restrict synaptic partner choice during <i>Drosophila</i> brain wiring. Nature Communications, 2020, 11, 1325.	12.8	31
40	A <i>Drosophila</i> genetic screen yields allelic series of core microRNA biogenesis factors and reveals post-developmental roles for microRNAs. Rna, 2011, 17, 1997-2010.	3.5	28
41	Brain connectivity inversely scales with developmental temperature in <i>Drosophila</i> . Cell Reports, 2021, 37, 110145.	6.4	27
42	Wiring visual systems: common and divergent mechanisms and principles. Current Opinion in Neurobiology, 2017, 42, 128-135.	4.2	24
43	Similarities of <i>Drosophila</i> rab GTPases Based on Expression Profiling: Completion and Analysis of the rab-Gal4 Kit. PLoS ONE, 2012, 7, e40912.	2.5	23
44	Genetics in the Age of Systems Biology. Cell, 2005, 123, 1173-1174.	28.9	21
45	Guidance Receptor Degradation Is Required for Neuronal Connectivity in the <i>Drosophila</i> Nervous System. PLoS Biology, 2010, 8, e1000553.	5.6	21
46	Systematic functional analysis of rab GTPases reveals limits of neuronal robustness to environmental challenges in flies. ELife, 2021, 10, .	6.0	20
47	Neuronal strategies for meeting the right partner during brain wiring. Current Opinion in Neurobiology, 2020, 63, 1-8.	4.2	19
48	Autophagy, neuron-specific degradation and neurodegeneration. Autophagy, 2012, 8, 711-713.	9.1	17
49	Brain wiring with composite instructions. BioEssays, 2021, 43, e2000166.	2.5	17
50	Neuronal filopodia: From stochastic dynamics to robustness of brain morphogenesis. Seminars in Cell and Developmental Biology, 2023, 133, 10-19.	5.0	16
51	Combining recombineering and ends-out homologous recombination to systematically characterize <i>Drosophila</i> gene families. Communicative and Integrative Biology, 2012, 5, 179-183.	1.4	12
52	Flying in the face of total disruption. Nature Genetics, 2004, 36, 211-212.	21.4	10
53	The <i>Drosophila</i> amyloid precursor protein homologue mediates neuronal survival and neuroglial interactions. PLoS Biology, 2020, 18, e3000703.	5.6	10
54	Intracellular trafficking in <i>Drosophila</i> visual system development: A basis for pattern formation through simple mechanisms. Developmental Neurobiology, 2011, 71, 1227-1245.	3.0	6

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55	Synaptic Patterning by Morphogen Signaling. Science Signaling, 2008, 1, pe20.	3.6	3
56	Live Imaging of Connectivity in Developing Neural Circuits in Drosophila. , 2017, , 149-167.		0
57	Title is missing!. , 2020, 18, e3000703.		0
58	Title is missing!. , 2020, 18, e3000703.		0
59	Title is missing!. , 2020, 18, e3000703.		0
60	Title is missing!. , 2020, 18, e3000703.		0
61	Title is missing!. , 2020, 18, e3000703.		0
62	Title is missing!. , 2020, 18, e3000703.		0