

# Harold D Macgillavry

## List of Publications by Citations

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**Version:** 2024-04-27

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44  
papers

2,189  
citations

20  
h-index

46  
g-index

54  
ext. papers

2,950  
ext. citations

7.9  
avg, IF

4.95  
L-index

#	Paper	IF	Citations
44	A trans-synaptic nanocolumn aligns neurotransmitter release to receptors. <i>Nature</i> , <b>2016</b> , 536, 210-4	50.4	333
43	Nanoscale scaffolding domains within the postsynaptic density concentrate synaptic AMPA receptors. <i>Neuron</i> , <b>2013</b> , 78, 615-22	13.9	273
42	Illegitimate WNT signaling promotes proliferation of multiple myeloma cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 6122-7	11.5	271
41	Microglia innately develop within cerebral organoids. <i>Nature Communications</i> , <b>2018</b> , 9, 4167	17.4	240
40	Schwann cell to axon transfer of ribosomes: toward a novel understanding of the role of glia in the nervous system. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 11024-9	6.6	171
39	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. <i>Neuron</i> , <b>2019</b> , 103, 217-234	13.9	147
38	Identification of candidate transcriptional modulators involved in successful regeneration after nerve injury. <i>European Journal of Neuroscience</i> , <b>2007</b> , 25, 3629-37	3.5	101
37	Functional organization of postsynaptic glutamate receptors. <i>Molecular and Cellular Neurosciences</i> , <b>2018</b> , 91, 82-94	4.8	68
36	Robust, Sensitive, and Automated Phosphopeptide Enrichment Optimized for Low Sample Amounts Applied to Primary Hippocampal Neurons. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 728-737	5.6	64
35	NFIL3 and cAMP response element-binding protein form a transcriptional feedforward loop that controls neuronal regeneration-associated gene expression. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 15542-50	6.6	63
34	Multiple spatial and kinetic subpopulations of CaMKII in spines and dendrites as resolved by single-molecule tracking PALM. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 7600-10	6.6	56
33	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000665	9.7	48
32	Lateral organization of the postsynaptic density. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 48, 321-31	4.8	46
31	A gene network perspective on axonal regeneration. <i>Frontiers in Molecular Neuroscience</i> , <b>2011</b> , 4, 46	6.1	42
30	Genome-wide gene expression and promoter binding analysis identifies NFIL3 as a repressor of C/EBP target genes in neuronal outgrowth. <i>Molecular and Cellular Neurosciences</i> , <b>2011</b> , 46, 460-8	4.8	38
29	Shank-cortactin interactions control actin dynamics to maintain flexibility of neuronal spines and synapses. <i>European Journal of Neuroscience</i> , <b>2016</b> , 43, 179-93	3.5	35
28	Synapse Pathology in Schizophrenia: A Meta-analysis of Postsynaptic Elements in Postmortem Brain Studies. <i>Schizophrenia Bulletin</i> , <b>2020</b> , 46, 374-386	1.3	34

27	Protein Crowding within the Postsynaptic Density Can Impede the Escape of Membrane Proteins. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 4276-95	6.6	33
26	VAP-SCRN1 interaction regulates dynamic endoplasmic reticulum remodeling and presynaptic function. <i>EMBO Journal</i> , <b>2019</b> , 38, e101345	13	26
25	The internal architecture of dendritic spines revealed by super-resolution imaging: What did we learn so far?. <i>Experimental Cell Research</i> , <b>2015</b> , 335, 180-6	4.2	25
24	LLM3D: a log-linear modeling-based method to predict functional gene regulatory interactions from genome-wide expression data. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 5313-27	20.1	16
23	Microtubule Minus-End Binding Protein CAMSAP2 and Kinesin-14 Motor KIFC3 Control Dendritic Microtubule Organization. <i>Current Biology</i> , <b>2020</b> , 30, 899-908.e6	6.3	14
22	Shank Proteins Couple the Endocytic Zone to the Postsynaptic Density to Control Trafficking and Signaling of Metabotropic Glutamate Receptor 5. <i>Cell Reports</i> , <b>2019</b> , 29, 258-269.e8	10.6	9
21	Molecular target discovery for neural repair in the functional genomics era. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , <b>2012</b> , 109, 595-616	3	9
20	Single-Molecule Tracking Photoactivated Localization Microscopy to Map Nano-Scale Structure and Dynamics in Living Spines. <i>Current Protocols in Neuroscience</i> , <b>2013</b> , 65, 2.20.1-2.20.19	2.7	5
19	Quantitative mapping of transcriptome and proteome dynamics during polarization of human iPSC-derived neurons. <i>ELife</i> , <b>2020</b> , 9,	8.9	5
18	Temporal Quantitative Proteomics of mGluR-induced Protein Translation and Phosphorylation in Neurons. <i>Molecular and Cellular Proteomics</i> , <b>2020</b> , 19, 1952-1968	7.6	5
17	Centrosome-mediated microtubule remodeling during axon formation in human iPSC-derived neurons. <i>EMBO Journal</i> , <b>2021</b> , 40, e106798	13	4
16	Live-Cell PALM of Intracellular Proteins in Neurons. <i>NeuroMethods</i> , <b>2014</b> , 93-123	0.4	2
15	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons		1
14	Membrane trafficking and positioning of mGluRs at presynaptic and postsynaptic sites of excitatory synapses. <i>Neuropharmacology</i> , <b>2021</b> , 200, 108799	5.5	1
13	Subsynaptic mobility of presynaptic mGluR types is differentially regulated by intra- and extracellular interactions.. <i>Molecular Biology of the Cell</i> , <b>2022</b> , mbcE21100484	3.5	1
12	Contribution of Membrane Lipids to Postsynaptic Protein Organization. <i>Frontiers in Synaptic Neuroscience</i> , <b>2021</b> , 13, 790773	3.5	0
11	A coordinate-based co-localization index to quantify and visualize spatial associations in single-molecule localization microscopy.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4676	4.9	0
10	AMPA receptor trafficking in the developing and mature glutamatergic synapse <b>2020</b> , 507-525		

- 9 Single-Molecule Localization Microscopy of Subcellular Protein Distribution in Neurons.. *Methods in Molecular Biology*, **2022**, 2440, 271-288 1.4
- 8 ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons **2020**, 18, e3000665
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