Harold D Macgillavry

List of Publications by Year in Descending Order

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	Single-Molecule Localization Microscopy of Subcellular Protein Distribution in Neurons.. *Methods in Molecular Biology*, **2022**, 2440, 271-288	1.4	
43	A coordinate-based co-localization index to quantify and visualize spatial associations in single-molecule localization microscopy.. *Scientific Reports*, **2022**, 12, 4676	4.9	0
42	Subsynaptic mobility of presynaptic mGluR types is differentially regulated by intra- and extracellular interactions.. *Molecular Biology of the Cell*, **2022**, mbcE21100484	3.5	1
41	Contribution of Membrane Lipids to Postsynaptic Protein Organization. *Frontiers in Synaptic Neuroscience*, **2021**, 13, 790773	3.5	0
40	Centrosome-mediated microtubule remodeling during axon formation in human iPSC-derived neurons. *EMBO Journal*, **2021**, 40, e106798	13	4
39	Membrane trafficking and positioning of mGluRs at presynaptic and postsynaptic sites of excitatory synapses. *Neuropharmacology*, **2021**, 200, 108799	5.5	1
38	Synapse Pathology in Schizophrenia: A Meta-analysis of Postsynaptic Elements in Postmortem Brain Studies. *Schizophrenia Bulletin*, **2020**, 46, 374-386	1.3	34
37	Microtubule Minus-End Binding Protein CAMSAP2 and Kinesin-14 Motor KIFC3 Control Dendritic Microtubule Organization. *Current Biology*, **2020**, 30, 899-908.e6	6.3	14
36	Quantitative mapping of transcriptome and proteome dynamics during polarization of human iPSC-derived neurons. *ELife*, **2020**, 9,	8.9	5
35	AMPA receptor trafficking in the developing and mature glutamatergic synapse **2020**, 507-525		
34	Temporal Quantitative Proteomics of mGluR-induced Protein Translation and Phosphorylation in Neurons. *Molecular and Cellular Proteomics*, **2020**, 19, 1952-1968	7.6	5
33	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons. *PLoS Biology*, **2020**, 18, e3000665	9.7	48
32	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons **2020**, 18, e3000665		
31	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons **2020**, 18, e3000665		
30	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons **2020**, 18, e3000665		
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25	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons **2020**, 18, e3000665		
24	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. *Neuron*, **2019**, 103, 217-234.e4	13.9	147
23	Shank Proteins Couple the Endocytic Zone to the Postsynaptic Density to Control Trafficking and Signaling of Metabotropic Glutamate Receptor 5. *Cell Reports*, **2019**, 29, 258-269.e8	10.6	9
22	VAP-SCRN1 interaction regulates dynamic endoplasmic reticulum remodeling and presynaptic function. *EMBO Journal*, **2019**, 38, e101345	13	26
21	Microglia innately develop within cerebral organoids. *Nature Communications*, **2018**, 9, 4167	17.4	240
20	Functional organization of postsynaptic glutamate receptors. *Molecular and Cellular Neurosciences*, **2018**, 91, 82-94	4.8	68
19	Robust, Sensitive, and Automated Phosphopeptide Enrichment Optimized for Low Sample Amounts Applied to Primary Hippocampal Neurons. *Journal of Proteome Research*, **2017**, 16, 728-737	5.6	64
18	A trans-synaptic nanocolumn aligns neurotransmitter release to receptors. *Nature*, **2016**, 536, 210-4	50.4	333
17	Shank-cortactin interactions control actin dynamics to maintain flexibility of neuronal spines and synapses. *European Journal of Neuroscience*, **2016**, 43, 179-93	3.5	35
16	Protein Crowding within the Postsynaptic Density Can Impede the Escape of Membrane Proteins. *Journal of Neuroscience*, **2016**, 36, 4276-95	6.6	33
15	The internal architecture of dendritic spines revealed by super-resolution imaging: What did we learn so far?. *Experimental Cell Research*, **2015**, 335, 180-6	4.2	25
14	Multiple spatial and kinetic subpopulations of CaMKII in spines and dendrites as resolved by single-molecule tracking PALM. *Journal of Neuroscience*, **2014**, 34, 7600-10	6.6	56
13	Live-Cell PALM of Intracellular Proteins in Neurons. *Neuromethods*, **2014**, 93-123	0.4	2
12	Nanoscale scaffolding domains within the postsynaptic density concentrate synaptic AMPA receptors. *Neuron*, **2013**, 78, 615-22	13.9	273
11	Single-Molecule Tracking Photoactivated Localization Microscopy to Map Nano-Scale Structure and Dynamics in Living Spines. *Current Protocols in Neuroscience*, **2013**, 65, 2.20.1-2.20.19	2.7	5
10	Molecular target discovery for neural repair in the functional genomics era. *Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn*, **2012**, 109, 595-616	3	9

9	A gene network perspective on axonal regeneration. *Frontiers in Molecular Neuroscience*, **2011**, 4, 46	6.1	42
8	Genome-wide gene expression and promoter binding analysis identifies NFIL3 as a repressor of C/EBP target genes in neuronal outgrowth. *Molecular and Cellular Neurosciences*, **2011**, 46, 460-8	4.8	38
7	Lateral organization of the postsynaptic density. *Molecular and Cellular Neurosciences*, **2011**, 48, 321-31	4.8	46
6	LLM3D: a log-linear modeling-based method to predict functional gene regulatory interactions from genome-wide expression data. *Nucleic Acids Research*, **2011**, 39, 5313-27	20.1	16
5	NFIL3 and cAMP response element-binding protein form a transcriptional feedforward loop that controls neuronal regeneration-associated gene expression. *Journal of Neuroscience*, **2009**, 29, 15542-50	6.6	63
4	Schwann cell to axon transfer of ribosomes: toward a novel understanding of the role of glia in the nervous system. *Journal of Neuroscience*, **2008**, 28, 11024-9	6.6	171
3	Identification of candidate transcriptional modulators involved in successful regeneration after nerve injury. *European Journal of Neuroscience*, **2007**, 25, 3629-37	3.5	101
2	Illegitimate WNT signaling promotes proliferation of multiple myeloma cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2004**, 101, 6122-7	11.5	271
1	ORANGE: A CRISPR/Cas9-based genome editing toolbox for epitope tagging of endogenous proteins in neurons		1