Erin M Schuman

List of Publications by Citations

176 papers	21,916 citations	76 h-index	147 g-index
192 ext. papers	25,081 ext. citations	13.7 avg, IF	7.22 L-index

#	Paper	IF	Citations
176	Long-lasting neurotrophin-induced enhancement of synaptic transmission in the adult hippocampus. *Science*, **1995**, 267, 1658-62	33.3	1190
175	A requirement for the intercellular messenger nitric oxide in long-term potentiation. *Science*, **1991**, 254, 1503-6	33.3	1102
174	A requirement for local protein synthesis in neurotrophin-induced hippocampal synaptic plasticity. *Science*, **1996**, 273, 1402-6	33.3	803
173	Neural circular RNAs are derived from synaptic genes and regulated by development and plasticity. *Nature Neuroscience*, **2015**, 18, 603-610	25.5	719
172	Nitric oxide and synaptic function. *Annual Review of Neuroscience*, **1994**, 17, 153-83	17	697
171	Dendritic protein synthesis, synaptic plasticity, and memory. *Cell*, **2006**, 127, 49-58	56.2	625
170	Protein synthesis at synaptic sites on dendrites. *Annual Review of Neuroscience*, **2001**, 24, 299-325	17	591
169	A rapamycin-sensitive signaling pathway contributes to long-term synaptic plasticity in the hippocampus. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 467-72	11.5	589
168	Selective identification of newly synthesized proteins in mammalian cells using bioorthogonal noncanonical amino acid tagging (BONCAT). *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 9482-7	11.5	551
167	Dynamic visualization of local protein synthesis in hippocampal neurons. *Neuron*, **2001**, 30, 489-502	13.9	494
166	The local transcriptome in the synaptic neuropil revealed by deep sequencing and high-resolution imaging. *Neuron*, **2012**, 74, 453-66	13.9	485
165	Miniature neurotransmission stabilizes synaptic function via tonic suppression of local dendritic protein synthesis. *Cell*, **2006**, 125, 785-99	56.2	481
164	Neurotrophins and time: different roles for TrkB signaling in hippocampal long-term potentiation. *Neuron*, **1997**, 19, 653-64	13.9	440
163	Human memory strength is predicted by theta-frequency phase-locking of single neurons. *Nature*, **2010**, 464, 903-7	50.4	423
162	The central dogma decentralized: new perspectives on RNA function and local translation in neurons. *Neuron*, **2013**, 80, 648-57	13.9	359
161	Ubiquitin, the proteasome and protein degradation in neuronal function and dysfunction. *Nature Reviews Neuroscience*, **2008**, 9, 826-38	13.5	344
160	Compartmentalized synthesis and degradation of proteins in neurons. *Neuron*, **2003**, 40, 347-59	13.9	339

159	Locally distributed synaptic potentiation in the hippocampus. *Science*, **1994**, 263, 532-6	33.3	331
158	In situ visualization and dynamics of newly synthesized proteins in rat hippocampal neurons. *Nature Neuroscience*, **2010**, 13, 897-905	25.5	325
157	A role for the cadherin family of cell adhesion molecules in hippocampal long-term potentiation. *Neuron*, **1998**, 20, 1165-75	13.9	311
156	Depolarization drives beta-Catenin into neuronal spines promoting changes in synaptic structure and function. *Neuron*, **2002**, 35, 91-105	13.9	294
155	Role for a cortical input to hippocampal area CA1 in the consolidation of a long-term memory. *Nature*, **2004**, 431, 699-703	50.4	279
154	Enhancement of neurotransmitter release induced by brain-derived neurotrophic factor in cultured hippocampal neurons. *Journal of Neuroscience*, **1998**, 18, 10231-40	6.6	278
153	Neurotrophin regulation of synaptic transmission. *Current Opinion in Neurobiology*, **1999**, 9, 105-9	7.6	275
152	Tetanic stimulation leads to increased accumulation of Ca(2+)/calmodulin-dependent protein kinase II via dendritic protein synthesis in hippocampal neurons. *Journal of Neuroscience*, **1999**, 19, 7823-33	6.6	253
151	Activity-dependent dynamics and sequestration of proteasomes in dendritic spines. *Nature*, **2006**, 441, 1144-8	50.4	251
150	Inhibition of hippocampal heme oxygenase, nitric oxide synthase, and long-term potentiation by metalloporphyrins. *Neuron*, **1994**, 13, 1225-33	13.9	237
149	Labeling, detection and identification of newly synthesized proteomes with bioorthogonal non-canonical amino-acid tagging. *Nature Protocols*, **2007**, 2, 532-40	18.8	230
148	A role for endothelial NO synthase in LTP revealed by adenovirus-mediated inhibition and rescue. *Science*, **1996**, 274, 1744-8	33.3	225
147	A role for BDNF in the late-phase of hippocampal long-term potentiation. *Neuropharmacology*, **1998**, 37, 553-9	5.5	215
146	Postsynaptic decoding of neural activity: eEF2 as a biochemical sensor coupling miniature synaptic transmission to local protein synthesis. *Neuron*, **2007**, 55, 648-61	13.9	211
145	Microfluidic local perfusion chambers for the visualization and manipulation of synapses. *Neuron*, **2010**, 66, 57-68	13.9	210
144	Regulation of dendritic protein synthesis by miniature synaptic events. *Science*, **2004**, 304, 1979-83	33.3	208
143	Online detection and sorting of extracellularly recorded action potentials in human medial temporal lobe recordings, in vivo. *Journal of Neuroscience Methods*, **2006**, 154, 204-24	3	200
142	Single-trial learning of novel stimuli by individual neurons of the human hippocampus-amygdala complex. *Neuron*, **2006**, 49, 805-13	13.9	199

141	Dopaminergic stimulation of local protein synthesis enhances surface expression of GluR1 and synaptic transmission in hippocampal neurons. *Neuron*, **2005**, 45, 765-79	13.9	198
140	Visualization of the distribution of autophosphorylated calcium/calmodulin-dependent protein kinase II after tetanic stimulation in the CA1 area of the hippocampus. *Journal of Neuroscience*, **1997**, 17, 5416-27	6.6	196
139	A role for a rat homolog of staufen in the transport of RNA to neuronal dendrites. *Neuron*, **2001**, 32, 463-75	13.9	191
138	Synaptic regulation of translation of dendritic mRNAs. *Journal of Neuroscience*, **2006**, 26, 7143-6	6.6	188
137	Direct visualization of newly synthesized target proteins in situ. *Nature Methods*, **2015**, 12, 411-4	21.6	174
136	Local translation in neurons: visualization and function. *Nature Structural and Molecular Biology*, **2019**, 26, 557-566	17.6	171
135	Ubiquitin-mediated proteasome activity is required for agonist-induced endocytosis of GluRs. *Current Biology*, **2003**, 13, 2073-81	6.3	169
134	Local translational control in dendrites and its role in long-term synaptic plasticity. *Journal of Neurobiology*, **2005**, 64, 116-31		161
133	Direct cortical input modulates plasticity and spiking in CA1 pyramidal neurons. *Nature*, **2002**, 416, 736-40	50.4	158
132	Alternative 3QUTRs Modify the Localization, Regulatory Potential, Stability, and Plasticity of mRNAs in Neuronal Compartments. *Neuron*, **2018**, 98, 495-511.e6	13.9	155
131	Local protein synthesis is a ubiquitous feature of neuronal pre- and postsynaptic compartments. *Science*, **2019**, 364,	33.3	154
130	Cleavable biotin probes for labeling of biomolecules via azide-alkyne cycloaddition. *Journal of the American Chemical Society*, **2010**, 132, 18351-60	16.4	144
129	The role of cell adhesion molecules in synaptic plasticity and memory. *Current Opinion in Cell Biology*, **1999**, 11, 549-53	9	139
128	Cell-selective metabolic labeling of proteins. *Nature Chemical Biology*, **2009**, 5, 715-7	11.7	132
127	Activity-regulated N-cadherin endocytosis. *Neuron*, **2007**, 54, 771-85	13.9	130
126	Protein homeostasis and synaptic plasticity. *EMBO Journal*, **2010**, 29, 2746-52	13	128
125	Expression of a dominant negative TrkB receptor, T1, reveals a requirement for presynaptic signaling in BDNF-induced synaptic potentiation in cultured hippocampal neurons. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 10884-9	11.5	128
124	Spatially Stable Mitochondrial Compartments Fuel Local Translation during Plasticity. *Cell*, **2019**, 176, 73-84.e15	56.2	128

123	Circular RNAs in Brain and Other Tissues: A Functional Enigma. *Trends in Neurosciences*, **2016**, 39, 597-604	13.3	127
122	An ADP-ribosyltransferase as a potential target for nitric oxide action in hippocampal long-term potentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 11958-62	11.5	123
121	mRNA transport & local translation in neurons. *Current Opinion in Neurobiology*, **2017**, 45, 169-177	7.6	122
120	Activity-dependent spatially localized miRNA maturation in neuronal dendrites. *Science*, **2017**, 355, 634-637	33.3	116
119	Proteostasis in complex dendrites. *Nature Reviews Neuroscience*, **2013**, 14, 638-48	13.5	106
118	Removal of S6K1 and S6K2 leads to divergent alterations in learning, memory, and synaptic plasticity. *Learning and Memory*, **2008**, 15, 29-38	2.8	106
117	Local translation in neuronal compartments: how local is local?. *EMBO Reports*, **2017**, 18, 693-711	6.5	102
116	Synaptic protein degradation by the ubiquitin proteasome system. *Current Opinion in Neurobiology*, **2005**, 15, 536-41	7.6	102
115	Local and global influences on protein turnover in neurons and glia. *ELife*, **2018**, 7,	8.9	101
114	Regulation and function of local protein synthesis in neuronal dendrites. *Trends in Biochemical Sciences*, **2002**, 27, 506-13	10.3	94
113	Non-canonical amino acid labeling in vivo to visualize and affinity purify newly synthesized proteins in larval zebrafish. *ACS Chemical Neuroscience*, **2012**, 3, 40-49	5.7	88
112	Cadherins and synaptic plasticity. *Current Opinion in Cell Biology*, **2008**, 20, 567-75	9	88
111	Nascent Proteome Remodeling following Homeostatic Scaling at Hippocampal Synapses. *Neuron*, **2016**, 92, 358-371	13.9	85
110	Cell-type-specific metabolic labeling of nascent proteomes in vivo. *Nature Biotechnology*, **2017**, 35, 1196-1201	44.9	85
109	Synapse specificity and long-term information storage. *Neuron*, **1997**, 18, 339-42	13.9	85
108	Characterization of the Brain 26S Proteasome and its Interacting Proteins. *Frontiers in Molecular Neuroscience*, **2010**, 3,	6.1	82
107	mRNA trafficking and local protein synthesis at the synapse. *Neuron*, **1999**, 23, 645-8	13.9	82
106	Cerebellar-dependent learning in larval zebrafish. *Journal of Neuroscience*, **2011**, 31, 8708-12	6.6	81

105	Activity of human hippocampal and amygdala neurons during retrieval of declarative memories. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 329-34	11.5	78
104	The Regulation of Synaptic Protein Turnover. *Journal of Biological Chemistry*, **2015**, 290, 28623-30	5.4	77
103	Calcium-dependent dynamics of cadherin interactions at cell-cell junctions. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 9857-62	11.5	77
102	Inhibition of 26S proteasome activity by huntingtin filaments but not inclusion bodies isolated from mouse and human brain. *Journal of Neurochemistry*, **2006**, 98, 1585-96	6	77
101	Monosomes actively translate synaptic mRNAs in neuronal processes. *Science*, **2020**, 367,	33.3	76
100	A proteasome-sensitive connection between PSD-95 and GluR1 endocytosis. *Neuropharmacology*, **2004**, 47, 755-63	5.5	75
99	Axonal translation of β-catenin regulates synaptic vesicle dynamics. *Journal of Neuroscience*, **2013**, 33, 5584-9	6.6	72
98	Cell-specific proteomic analysis in Caenorhabditis elegans. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2705-10	11.5	68
97	Unconventional secretory processing diversifies neuronal ion channel properties. *ELife*, **2016**, 5,	8.9	65
96	Constitutive/hypoxic degradation of HIF-alpha proteins by the proteasome is independent of von Hippel Lindau protein ubiquitylation and the transactivation activity of the protein. *Journal of Biological Chemistry*, **2007**, 282, 15498-505	5.4	61
95	Light-mediated inhibition of protein synthesis. *Chemistry and Biology*, **2005**, 12, 685-93		59
94	Patterned activity in stratum lacunosum moleculare inhibits CA1 pyramidal neuron firing. *Journal of Neurophysiology*, **1999**, 82, 3213-22	3.2	59
93	Local translation in neuronal processes. *Current Opinion in Neurobiology*, **2019**, 57, 141-148	7.6	58
92	Determinants of BDNF-induced hippocampal synaptic plasticity: role of the Trk B receptor and the kinetics of neurotrophin delivery. *Learning and Memory*, **1996**, 3, 188-96	2.8	55
91	Molecular mechanisms contributing to long-lasting synaptic plasticity at the temporoammonic-CA1 synapse. *Learning and Memory*, **2003**, 10, 247-52	2.8	54
90	Long-range temporal correlations in the spontaneous spiking of neurons in the hippocampal-amygdala complex of humans. *Neuroscience*, **2005**, 131, 547-55	3.9	52
89	Dopaminergic modulation of the hippocampal neuropil proteome identified by bioorthogonal noncanonical amino acid tagging (BONCAT). *Proteomics*, **2012**, 12, 2464-76	4.8	50
88	Quantitative, time-resolved proteomic analysis by combining bioorthogonal noncanonical amino acid tagging and pulsed stable isotope labeling by amino acids in cell culture. *Molecular and Cellular Proteomics*, **2014**, 13, 1352-8	7.6	49

87	Functional division of hippocampal area CA1 via modulatory gating of entorhinal cortical inputs. *Hippocampus*, **2012**, 22, 372-87	3.5	46
86	Mutant methionyl-tRNA synthetase from bacteria enables site-selective N-terminal labeling of proteins expressed in mammalian cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4992-7	11.5	45
85	Synaptic facilitation at connections of Hermissenda type B photoreceptors. *Journal of Neuroscience*, **1994**, 14, 1613-22	6.6	45
84	Mechanism of direct degradation of IkappaBalpha by 20S proteasome. *FEBS Letters*, **2005**, 579, 4797-802	3.8	44
83	Synaptic control of secretory trafficking in dendrites. *Cell Reports*, **2014**, 7, 1771-8	10.6	43
82	alpha-Synuclein expression levels do not significantly affect proteasome function and expression in mice and stably transfected PC12 cell lines. *Journal of Biological Chemistry*, **2004**, 279, 52984-90	5.4	43
81	Intracellular Ca(2+) signaling is required for neurotrophin-induced potentiation in the adult rat hippocampus. *Neuroscience Letters*, **2000**, 282, 141-4	3.3	43
80	Long-term depression of temporoammonic-CA1 hippocampal synaptic transmission. *Journal of Neurophysiology*, **1999**, 81, 1036-44	3.2	43
79	Mechanism of cleavage of alpha-synuclein by the 20S proteasome and modulation of its degradation by the RedOx state of the N-terminal methionines. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2014**, 1843, 352-65	4.9	38
78	Design of photocaged puromycin for nascent polypeptide release and spatiotemporal monitoring of translation. *Angewandte Chemie - International Edition*, **2015**, 54, 3717-21	16.4	38
77	Protein synthesis-dependent associative long-term memory in larval zebrafish. *Journal of Neuroscience*, **2013**, 33, 15382-7	6.6	38
76	Proteome dynamics during homeostatic scaling in cultured neurons. *ELife*, **2020**, 9,	8.9	34
75	Time- and polarity-dependent proteomic changes associated with homeostatic scaling at central synapses. *ELife*, **2018**, 7,	8.9	33
74	Deep sequencing and high-resolution imaging reveal compartment-specific localization of Bdnf mRNA in hippocampal neurons. *Science Signaling*, **2013**, 6, rs16	8.8	32
73	BONCAT: metabolic labeling, click chemistry, and affinity purification of newly synthesized proteomes. *Methods in Molecular Biology*, **2015**, 1266, 199-215	1.4	32
72	Engineered Aminoacyl-tRNA Synthetase for Cell-Selective Analysis of Mammalian Protein Synthesis. *Journal of the American Chemical Society*, **2016**, 138, 4278-81	16.4	30
71	Teaching old NCATs new tricks: using non-canonical amino acid tagging to study neuronal plasticity. *Current Opinion in Chemical Biology*, **2013**, 17, 738-46	9.7	30
70	Partitioning the synaptic landscape: distinct microdomains for spontaneous and spike-triggered neurotransmission. *Science Signaling*, **2009**, 2, pe19	8.8	27

69	How mRNA Localization and Protein Synthesis Sites Influence Dendritic Protein Distribution and Dynamics. *Neuron*, **2019**, 103, 1109-1122.e7	13.9	26
68	Full-length transcriptome reconstruction reveals a large diversity of RNA and protein isoforms in rat hippocampus. *Nature Communications*, **2019**, 10, 5009	17.4	26
67	Synphilin-1 inhibits alpha-synuclein degradation by the proteasome. *Cellular and Molecular Life Sciences*, **2011**, 68, 2643-54	10.3	26
66	Recombinant adenovirus-mediated expression in nervous system of genes coding for ion channels and other molecules involved in synaptic function. *Methods in Enzymology*, **1998**, 293, 483-503	1.7	26
65	Neuronal NT-3 Is not Required For Synaptic Transmission or Long-Term Potentiation in Area CA1 of the Adult Rat Hippocampus. *Learning and Memory*, **1999**, 6, 267-275	2.8	26
64	A critical appraisal of quantitative studies of protein degradation in the framework of cellular proteostasis. *Biochemistry Research International*, **2012**, 2012, 823597	2.4	24
63	Abundant GFP expression and LTP in hippocampal acute slices by in vivo injection of sindbis virus. *Journal of Neurophysiology*, **2001**, 86, 1037-42	3.2	24
62	Cell-type-specific metabolic labeling, detection and identification of nascent proteomes in vivo. *Nature Protocols*, **2019**, 14, 556-575	18.8	24
61	Reduced protein stability of human DJ-1/PARK7 L166P, linked to autosomal recessive Parkinson disease, is due to direct endoproteolytic cleavage by the proteasome. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2012**, 1823, 524-33	4.9	22
60	Glutamate Receptor Trafficking and Protein Synthesis Mediate the Facilitation of LTP by Secreted Amyloid Precursor Protein-Alpha. *Journal of Neuroscience*, **2019**, 39, 3188-3203	6.6	21
59	State-selective metabolic labeling of cellular proteins. *ACS Chemical Biology*, **2012**, 7, 1326-30	4.9	21
58	Visualization of newly synthesized neuronal RNA in vitro and in vivo using click-chemistry. *RNA Biology*, **2017**, 14, 20-28	4.8	20
57	MicroRNA: microRNAs reach out into dendrites. *Current Biology*, **2006**, 16, R121-3	6.3	20
56	SnapShot: local protein translation in dendrites. *Neuron*, **2014**, 81, 958-958.e1	13.9	19
55	Nitric oxide as an intercellular signal in long-term potentiation. *Seminars in Neuroscience*, **1993**, 5, 207-215		17
54	Differential regulation of local mRNA dynamics and translation following long-term potentiation and depression. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	17
53	Measurement of dendritic mRNA transport using ribosomal markers. *Biochemical and Biophysical Research Communications*, **2005**, 328, 895-900	3.4	16
52	Role of N-cadherin cis and trans interfaces in the dynamics of adherens junctions in living cells. *PLoS ONE*, **2013**, 8, e81517	3.7	16

51	Long and Repeat-Rich Intronic Sequences Favor Circular RNA Formation under Conditions of Reduced Spliceosome Activity. *IScience*, **2019**, 20, 237-247	6.1	15
50	Modification of hippocampal synaptic proteins by nitric oxide-stimulated ADP ribosylation. *Learning and Memory*, **1997**, 3, 414-24	2.8	15
49	Subcellular sequencing of single neurons reveals the dendritic transcriptome of GABAergic interneurons. *ELife*, **2021**, 10,	8.9	15
48	The aspirin metabolite sodium salicylate causes focal cerebral hemorrhage and cell death in rats with kainic acid-induced seizures. *Neuroscience*, **2000**, 99, 107-17	3.9	14
47	The switch-like expression of heme-regulated kinase 1 mediates neuronal proteostasis following proteasome inhibition. *ELife*, **2020**, 9,	8.9	14
46	The neuropeptide Pth2 dynamically senses others via mechanosensation. *Nature*, **2020**, 588, 653-657	50.4	14
45	Fueling synapses. *Cell*, **2004**, 119, 738-40	56.2	13
44	Involvement of nitric oxide in synaptic plasticity and learning. *Seminars in Neuroscience*, **1994**, 6, 11-20		12
43	ATM phosphorylation of the actin-binding protein drebrin controls oxidation stress-resistance in mammalian neurons and C. elegans. *Nature Communications*, **2019**, 10, 486	17.4	11
42	Local protein synthesis in neurons. *Current Biology*, **2001**, 11, R901-3	6.3	11
41	A New Photocaged Puromycin for an Efficient Labeling of Newly Translated Proteins in Living Neurons. *ChemBioChem*, **2018**, 19, 2458-2464	3.8	11
40	Super-resolution imaging and estimation of protein copy numbers at single synapses with DNA-point accumulation for imaging in nanoscale topography. *Neurophotonics*, **2019**, 6, 035008	3.9	10
39	The N-terminal region of Nurr1 (a.a 1-31) is essential for its efficient degradation by the ubiquitin proteasome pathway. *PLoS ONE*, **2013**, 8, e55999	3.7	10
38	Molecular biology. mRNA, live and unmasked. *Science*, **2014**, 343, 375-6	33.3	9
37	LTP, post or pre? A look at the evidence for the locus of long-term potentiation. *The New Biologist*, **1991**, 3, 549-57		9
36	Lateral assembly of N-cadherin drives tissue integrity by stabilizing adherens junctions. *Journal of the Royal Society Interface*, **2015**, 12, 20141055	4.1	7
35	Neuronal ribosomes exhibit dynamic and context-dependent exchange of ribosomal proteins. *Nature Communications*, **2021**, 12, 6127	17.4	7
34	The mRNA translation landscape in the synaptic neuropil		7

33	Epitope Mapping of Antibodies to Alpha-Synuclein in LRRK2 Mutation Carriers, Idiopathic Parkinson Disease Patients, and Healthy Controls. *Frontiers in Aging Neuroscience*, **2014**, 6, 169	5.3	6
32	Molecular consequences of diffusible signaling: locally distributed synaptic enhancement in hippocampal neurons. *Seminars in Cell Biology*, **1994**, 5, 251-61		6
31	The integrated stress response contributes to tRNA synthetase-associated peripheral neuropathy. *Science*, **2021**, 373, 1156-1161	33.3	6
30	Statistical Laws of Protein Motion in Neuronal Dendritic Trees. *Cell Reports*, **2020**, 33, 108391	10.6	5
29	Rethinking Functional Segregation: Gradients of Gene Expression in Area CA1. *Neuron*, **2016**, 89, 242-3	13.9	5
28	A Functional Dissection of the mRNA and Locally Synthesized Protein Population in Neuronal Dendrites and Axons. *Annual Review of Genetics*, **2021**, 55, 183-207	14.5	5
27	A genetically encodable cell-type-specific protein synthesis inhibitor. *Nature Methods*, **2019**, 16, 699-702	21.6	4
26	Preview. Angelman syndrome: finding the lost arc. *Cell*, **2010**, 140, 608-10	56.2	4
25	Neuronal ribosomes dynamically exchange ribosomal proteins in a context-dependent manner		4
24	The prevalence and specificity of local protein synthesis during neuronal synaptic plasticity. *Science Advances*, **2021**, 7, eabj0790	14.3	4
23	Proteostatic regulation in neuronal compartments. *Trends in Neurosciences*, **2021**,	13.3	4
22	Protein degradation in a LAMP-2-deficient B-lymphoblastoid cell line from a patient with Danon disease. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 1423-32	6.9	3
21	The translatome of neuronal cell bodies, dendrites, and axons. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
20	Communication of synaptic potentiation between synapses of the hippocampus. *Advances in Second Messenger and Phosphoprotein Research*, **1994**, 29, 507-20		3
19	The Spatial Scale of Synaptic Protein Allocation during Homeostatic Plasticity		3
18	Differential regulation of local mRNA dynamics and translation following long-term potentiation and depression		3
17	LIMK, Cofilin 1 and actin dynamics involvement in fear memory processing. *Neurobiology of Learning and Memory*, **2020**, 173, 107275	3.1	3
16	NEUROSCIENCE. Opting in or out of the network. *Science*, **2015**, 350, 1477-8	33.3	2

List of Publications

15	Correction of amygdalar dysfunction in a rat model of fragile X syndrome. *Cell Reports*, **2021**, 37, 109805	10.6	2
14	Dynamic bi-directional phosphorylation events associated with the reciprocal regulation of synapses during homeostatic up- and down-scaling		2
13	Dynamic bi-directional phosphorylation events associated with the reciprocal regulation of synapses during homeostatic up- and down-scaling. *Cell Reports*, **2021**, 36, 109583	10.6	2
12	Co-translational assembly orchestrates competing biogenesis pathways.. *Nature Communications*, **2022**, 13, 1224	17.4	2
11	Local protein synthesis is a ubiquitous feature of neuronal pre- and postsynaptic compartments		1
10	Oxytocin receptors influence the development and maintenance of social behavior in zebrafish (Danio rerio).		1
9	Co-translational assembly counteracts promiscuous interactions		1
8	Photo-tethered molecular beacons for superior light-induction. *Chemical Communications*, **2021**, 57, 615-618	5.8	1
7	Unbiased choice of global clustering parameters in single-molecule localization microscopy		1
6	P2X7 receptor blockade reduces tau induced toxicity, therapeutic implications in tauopathies. *Progress in Neurobiology*, **2021**, 208, 102173	10.9	1
5	Oxytocin receptors influence the development and maintenance of social behavior in zebrafish (Danio rerio).. *Scientific Reports*, **2022**, 12, 4322	4.9	1
4	Subcellular RNA-seq for the Analysis of the Dendritic and Somatic Transcriptomes of Single Neurons.. *Bio-protocol*, **2022**, 12, e4278	0.9	0
3	The neuropeptide Pth2 modulates social behavior and anxiety in zebrafish.. *IScience*, **2022**, 25, 103868	6.1	0
2	Quantifying phosphorylation dynamics in primary neuronal cultures using LC-MS/MS.. *STAR Protocols*, **2022**, 3, 101063	1.4	
1	Zelltypspezifische Proteommarkierung in vivo. *BioSpektrum*, **2018**, 24, 390-392	0.1	