Ruud F G Toonen

List of Publications by Citations

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68 papers	3,713 citations	28 h-index	60 g-index
72 ext. papers	4,330 ext. citations	8.4 avg, IF	4.98 L-index

#	Paper	IF	Citations
68	Synaptic assembly of the brain in the absence of neurotransmitter secretion. *Science*, **2000**, 287, 864-9	33.3	1003
67	Munc18-1 promotes large dense-core vesicle docking. *Neuron*, **2001**, 31, 581-91	13.9	305
66	Vesicle trafficking: pleasure and pain from SM genes. *Trends in Cell Biology*, **2003**, 13, 177-86	18.3	215
65	Interdependence of PKC-dependent and PKC-independent pathways for presynaptic plasticity. *Neuron*, **2007**, 54, 275-90	13.9	166
64	Munc18-1 in secretion: lonely Munc joins SNARE team and takes control. *Trends in Neurosciences*, **2007**, 30, 564-72	13.3	155
63	Dissecting docking and tethering of secretory vesicles at the target membrane. *EMBO Journal*, **2006**, 25, 3725-37	13	146
62	Quantifying exosome secretion from single cells reveals a modulatory role for GPCR signaling. *Journal of Cell Biology*, **2018**, 217, 1129-1142	7.3	124
61	Munc18-1 expression levels control synapse recovery by regulating readily releasable pool size. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 18332-7	11.5	117
60	Automated analysis of neuronal morphology, synapse number and synaptic recruitment. *Journal of Neuroscience Methods*, **2011**, 195, 185-93	3	115
59	Docking of secretory vesicles is syntaxin dependent. *PLoS ONE*, **2006**, 1, e126	3.7	94
58	Liprin-▯ promotes the presynaptic recruitment and turnover of RIM1/CASK to facilitate synaptic transmission. *Journal of Cell Biology*, **2013**, 201, 915-28	7.3	76
57	Munc18-1 stabilizes syntaxin 1, but is not essential for syntaxin 1 targeting and SNARE complex formation. *Journal of Neurochemistry*, **2005**, 93, 1393-400	6	71
56	Munc13 controls the location and efficiency of dense-core vesicle release in neurons. *Journal of Cell Biology*, **2012**, 199, 883-91	7.3	62
55	Vesicular trafficking of semaphorin 3A is activity-dependent and differs between axons and dendrites. *Traffic*, **2006**, 7, 1060-77	5.7	60
54	Munc13-1 and Munc18-1 together prevent NSF-dependent de-priming of synaptic vesicles. *Nature Communications*, **2017**, 8, 15915	17.4	56
53	Munc18-1 is a dynamically regulated PKC target during short-term enhancement of transmitter release. *ELife*, **2014**, 3, e01715	8.9	53
52	Munc18-1 mutations that strongly impair SNARE-complex binding support normal synaptic transmission. *EMBO Journal*, **2012**, 31, 2156-68	13	51

51	Munc18-1 phosphorylation by protein kinase C potentiates vesicle pool replenishment in bovine chromaffin cells. *Neuroscience*, **2006**, 143, 487-500	3.9	51
50	Matrix-dependent local retention of secretory vesicle cargo in cortical neurons. *Journal of Neuroscience*, **2009**, 29, 23-37	6.6	49
49	Trophic support delays but does not prevent cell-intrinsic degeneration of neurons deficient for munc18-1. *European Journal of Neuroscience*, **2004**, 20, 623-34	3.5	48
48	Protein instability, haploinsufficiency, and cortical hyper-excitability underlie STXBP1 encephalopathy. *Brain*, **2018**, 141, 1350-1374	11.2	47
47	A Single-Cell Model for Synaptic Transmission and Plasticity in Human iPSC-Derived Neurons. *Cell Reports*, **2019**, 27, 2199-2211.e6	10.6	40
46	Unfolded protein response activates glycogen synthase kinase-3 via selective lysosomal degradation. *Neurobiology of Aging*, **2013**, 34, 1759-71	5.6	37
45	Ca(2+)-induced recruitment of the secretory vesicle protein DOC2B to the target membrane. *Journal of Biological Chemistry*, **2004**, 279, 23740-7	5.4	37
44	Regulated exocytosis: merging ideas on fusing membranes. *Current Opinion in Cell Biology*, **2007**, 19, 402-8	9	36
43	Phosphorylation of synaptotagmin-1 controls a post-priming step in PKC-dependent presynaptic plasticity. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 5095-100	11.5	31
42	Munc18-1 redistributes in nerve terminals in an activity- and PKC-dependent manner. *Journal of Cell Biology*, **2014**, 204, 759-75	7.3	30
41	Munc18 and Munc13 regulate early neurite outgrowth. *Biology of the Cell*, **2010**, 102, 479-88	3.5	29
40	The role of Rab3a in secretory vesicle docking requires association/dissociation of guanidine phosphates and Munc18-1. *PLoS ONE*, **2007**, 2, e616	3.7	27
39	SNAP-25 gene family members differentially support secretory vesicle fusion. *Journal of Cell Science*, **2017**, 130, 1877-1889	5.3	25
38	Early Golgi Abnormalities and Neurodegeneration upon Loss of Presynaptic Proteins Munc18-1, Syntaxin-1, or SNAP-25. *Journal of Neuroscience*, **2017**, 37, 4525-4539	6.6	25
37	Presynaptic inhibition upon CB1 or mGlu2/3 receptor activation requires ERK/MAPK phosphorylation of Munc18-1. *EMBO Journal*, **2016**, 35, 1236-50	13	25
36	Vti1a/b regulate synaptic vesicle and dense core vesicle secretion via protein sorting at the Golgi. *Nature Communications*, **2018**, 9, 3421	17.4	25
35	Homozygous STXBP1 variant causes encephalopathy and gain-of-function in synaptic transmission. *Brain*, **2020**, 143, 441-451	11.2	24
34	Pool size estimations for dense-core vesicles in mammalian CNS neurons. *EMBO Journal*, **2018**, 37,	13	24

33	Dendritic position is a major determinant of presynaptic strength. *Journal of Cell Biology*, **2012**, 197, 327-37	7.3	20
32	Multi-level characterization of balanced inhibitory-excitatory cortical neuron network derived from human pluripotent stem cells. *PLoS ONE*, **2017**, 12, e0178533	3.7	20
31	The RAB3-RIM Pathway Is Essential for the Release of Neuromodulators. *Neuron*, **2019**, 104, 1065-1080.e12	13.9	19
30	CAPS-1 promotes fusion competence of stationary dense-core vesicles in presynaptic terminals of mammalian neurons. *ELife*, **2015**, 4,	8.9	19
29	Tyrosine phosphorylation of Munc18-1 inhibits synaptic transmission by preventing SNARE assembly. *EMBO Journal*, **2018**, 37, 300-320	13	17
28	CAPS-1 requires its C2, PH, MHD1 and DCV domains for dense core vesicle exocytosis in mammalian CNS neurons. *Scientific Reports*, **2017**, 7, 10817	4.9	14
27	Dense-core vesicle biogenesis and exocytosis in neurons lacking chromogranins A and B. *Journal of Neurochemistry*, **2018**, 144, 241-254	6	13
26	Automated quantification of cellular traffic in living cells. *Journal of Neuroscience Methods*, **2009**, 178, 378-84	3	11
25	Detection of silent cells, synchronization and modulatory activity in developing cellular networks. *Developmental Neurobiology*, **2016**, 76, 357-74	3.2	10
24	Functional characterization of the PCLO p.Ser4814Ala variant associated with major depressive disorder reveals cellular but not behavioral differences. *Neuroscience*, **2015**, 300, 518-38	3.9	9
23	Synaptic Effects of Munc18-1 Alternative Splicing in Excitatory Hippocampal Neurons. *PLoS ONE*, **2015**, 10, e0138950	3.7	9
22	Differential Maturation of the Two Regulated Secretory Pathways in Human iPSC-Derived Neurons. *Stem Cell Reports*, **2017**, 8, 659-672	8	7
21	Fbxo41 Promotes Disassembly of Neuronal Primary Cilia. *Scientific Reports*, **2019**, 9, 8179	4.9	7
20	Tetanus insensitive VAMP2 differentially restores synaptic and dense core vesicle fusion in tetanus neurotoxin treated neurons. *Scientific Reports*, **2020**, 10, 10913	4.9	6
19	SALM1 controls synapse development by promoting F-actin/PIP2-dependent Neurexin clustering. *EMBO Journal*, **2019**, 38, e101289	13	6
18	Vti Proteins: Beyond Endolysosomal Trafficking. *Neuroscience*, **2019**, 420, 32-40	3.9	6
17	CaMKII controls neuromodulation via neuropeptide gene expression and axonal targeting of neuropeptide vesicles. *PLoS Biology*, **2020**, 18, e3000826	9.7	4
16	Dynamin controls neuropeptide secretion by organizing dense-core vesicle fusion sites. *Science Advances*, **2021**, 7,	14.3	4

15	Loss of MUNC18-1 leads to retrograde transport defects in neurons. *Journal of Neurochemistry*, **2021**, 157, 450-466	6	3
14	Author response: CAPS-1 promotes fusion competence of stationary dense-core vesicles in presynaptic terminals of mammalian neurons **2015**,		2
13	Neuromodulator release in neurons requires two functionally redundant calcium sensors. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
12	A closer look at FBXO41 as a Parkinson's disease risk factor. *Parkinsonism and Related Disorders*, **2013**, 19, 1175-6	3.6	1
11	Quantitative analysis of dense-core vesicle fusion in rodent CNS neurons. *STAR Protocols*, **2021**, 2, 100325	5.4	1
10	is essential for neuropeptide secretion in neurons. *Journal of Neuroscience*, **2021**,	6.6	1
9	Neuronal F-Box protein FBXO41 regulates synaptic transmission and hippocampal network maturation.. *IScience*, **2022**, 25, 104069	6.1	1
8	Crashpilot underachieves due to acetylation at the nerve terminal. *Neuron*, **2011**, 72, 679-81	13.9	
7	Munc18-1 redistributes in nerve terminals in an activity- and PKC-dependent manner. *Journal of General Physiology*, **2014**, 143, 1434OIA9	3.4	
6	CaMKII controls neuromodulation via neuropeptide gene expression and axonal targeting of neuropeptide vesicles **2020**, 18, e3000826		
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