Frederique Varoqueaux

List of Publications by Year
in descending order

58 papers	7,987 citations	66343 42 h-index	133252 59 g-index
64 all docs	64 docs citations	64 times ranked	7356 citing authors

#	Article	IF	Citations
1	Neuroligins Determine Synapse Maturation and Function. Neuron, 2006, 51, 741-754.	8.1	717
2	Total arrest of spontaneous and evoked synaptic transmission but normal synaptogenesis in the absence of Munc13-mediated vesicle priming. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9037-9042.	7.1	504
3	Reduced social interaction and ultrasonic communication in a mouse model of monogenic heritable autism. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1710-1715.	7.1	489
4	Complexins Regulate a Late Step in Ca2+-Dependent Neurotransmitter Release. Cell, 2001, 104, 71-81.	28.9	465
5	Neuroligin 2 is exclusively localized to inhibitory synapses. European Journal of Cell Biology, 2004, 83, 449-456.	3.6	460
6	Î² Phorbol Ester- and Diacylglycerol-Induced Augmentation of Transmitter Release Is Mediated by Munc13s and Not by PKCs. Cell, 2002, 108, 121-133.	28.9	451
7	Neuroligin 2 Drives Postsynaptic Assembly at Perisomatic Inhibitory Synapses through Gephyrin and Collybistin. Neuron, 2009, 63, 628-642.	8.1	410
8	Differential Control of the Releasable Vesicle Pools by SNAP-25 Splice Variants and SNAP-23. Cell, 2003, 114, 75-86.	28.9	316
9	Neuroliginâ€3â€deficient mice: model of a monogenic heritable form of autism with an olfactory deficit. Genes, Brain and Behavior, 2009, 8, 416-425.	2.2	315
10	Calmodulin and Munc13 Form a Ca2+ Sensor/Effector Complex that Controls Short-Term Synaptic Plasticity. Cell, 2004, 118, 389-401.	28.9	256
11	Novel Cell Types, Neurosecretory Cells, and Body Plan of the Early-Diverging Metazoan Trichoplax adhaerens. Current Biology, 2014, 24, 1565-1572.	3.9	209
12	Munc13-1 acts as a priming factor for large dense-core vesicles in bovine chromaffin cells. EMBO Journal, 2000, 19, 3586-3596.	7.8	200
13	Neuroligin-4 is localized to glycinergic postsynapses and regulates inhibition in the retina. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3053-3058.	7.1	183
14	CAPS-1 and CAPS-2 Are Essential Synaptic Vesicle Priming Proteins. Cell, 2007, 131, 796-808.	28.9	176
15	The complexity of PDZ domain-mediated interactions at glutamatergic synapses: a case study on neuroligin. Neuropharmacology, 2004, 47, 724-733.	4.1	163
16	EphA4-Dependent Axon Guidance Is Mediated by the RacGAP Î±2-Chimaerin. Neuron, 2007, 55, 756-767.	8.1	134
17	A common molecular basis for membrane docking and functional priming of synaptic vesicles. European Journal of Neuroscience, 2009, 30, 49-56.	2.6	125
18	Proteomic screening of glutamatergic mouse brain synaptosomes isolated by fluorescence activated sorting. EMBO Journal, 2014, 33, 157-170.	7.8	121

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19	Increased Dentate Gyrus Excitability in Neuroligin-2-Deficient Mice in Vivo. Cerebral Cortex, 2011, 21, 357-367.	2.9	106
20	CAPS1 Regulates Catecholamine Loading of Large Dense-Core Vesicles. Neuron, 2005, 46, 75-88.	8.1	101
21	Regulation of Insulin Exocytosis by Munc13-1. Journal of Biological Chemistry, 2003, 278, 27556-27563.	3.4	98
22	A Family of Ca2+-Dependent Activator Proteins for Secretion. Journal of Biological Chemistry, 2003, 278, 52802-52809.	3.4	96
23	Postsynaptic Neuroligin1 regulates presynaptic maturation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13564-13569.	7.1	95
24	Binding to Rab3A-interacting Molecule RIM Regulates the Presynaptic Recruitment of Munc13-1 and ubMunc13-2. Journal of Biological Chemistry, 2006, 281, 19720-19731.	3.4	93
25	The Munc13 Proteins Differentially Regulate Readily Releasable Pool Dynamics and Calcium-Dependent Recovery at a Central Synapse. Journal of Neuroscience, 2013, 33, 8336-8351.	3.6	93
26	Electron Microscopy of the Mouse Central Nervous System. Methods in Cell Biology, 2010, 96, 475-512.	1.1	92
27	Identification of SNAP-47, a Novel Qbc-SNARE with Ubiquitous Expression*. Journal of Biological Chemistry, 2006, 281, 17076-17083.	3.4	90
28	Aberrant Morphology and Residual Transmitter Release at the Munc13-Deficient Mouse Neuromuscular Synapse. Molecular and Cellular Biology, 2005, 25, 5973-5984.	2.3	89
29	Synapse formation and clustering of neuroligin-2 in the absence of GABA _A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13151-13156.	7.1	89
30	High Cell Diversity and Complex Peptidergic Signaling Underlie Placozoan Behavior. Current Biology, 2018, 28, 3495-3501.e2.	3.9	84
31	Molecular Dynamics of a Presynaptic Active Zone Protein Studied in Munc13-1-Enhanced Yellow Fluorescent Protein Knock-In Mutant Mice. Journal of Neuroscience, 2006, 26, 13054-13066.	3.6	77
32	A conformational switch in collybistin determines the differentiation of inhibitory postsynapses. EMBO Journal, 2014, 33, 2113-2133.	7.8	75
33	Primordial neurosecretory apparatus identified in the choanoflagellate Monosiga brevicollis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15264-15269.	7.1	74
34	Comparative genomics and the nature of placozoan species. PLoS Biology, 2018, 16, e2005359.	5.6	73
35	Neuroligin 2 Controls the Maturation of GABAergic Synapses and Information Processing in the Retina. Journal of Neuroscience, 2009, 29, 8039-8050.	3.6	71
36	Perturbed Hippocampal Synaptic Inhibition and Î³-Oscillations in a Neuroligin-4 Knockout Mouse Model of Autism. Cell Reports, 2015, 13, 516-523.	6.4	66

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37	Complexin II plays a positive role in Ca ²⁺ -triggered exocytosis by facilitating vesicle priming. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19538-19543.	7.1	64
38	Homodimerization and isoform-specific heterodimerization of neuroligins. Biochemical Journal, 2012, 446, 321-330.	3.7	63
39	Munc13-Independent Vesicle Priming at Mouse Photoreceptor Ribbon Synapses. Journal of Neuroscience, 2012, 32, 8040-8052.	3.6	62
40	Munc13-4 Regulates Granule Secretion in Human Neutrophils. Journal of Immunology, 2008, 180, 6786-6797.	0.8	61
41	Hormonal Regulation of Glutamate Receptor Gene Expression in the Anteroventral Periventricular Nucleus of the Hypothalamus. Journal of Neuroscience, 1999, 19, 3213-3222.	3.6	60
42	Loss of transforming growth factor-beta 2 leads to impairment of central synapse function. Neural Development, 2008, 3, 25.	2.4	47
43	Vesicle Priming and Recruitment by ubMunc13-2 Are Differentially Regulated by Calcium and Calmodulin. Journal of Neuroscience, 2008, 28, 1949-1960.	3.6	45
44	Getting Nervous: An Evolutionary Overhaul for Communication. Annual Review of Genetics, 2017, 51, 455-476.	7.6	44
45	ELKS1 localizes the synaptic vesicle priming protein bMunc13-2 to a specific subset of active zones. Journal of Cell Biology, 2017, 216, 1143-1161.	5.2	43
46	A Brain-specific Isoform of Small Glutamine-rich Tetratricopeptide Repeat-containing Protein Binds to Hsc70 and the Cysteine String Protein. Journal of Biological Chemistry, 2003, 278, 38376-38383.	3.4	42
47	The diversification and lineage-specific expansion of nitric oxide signaling in Placozoa: insights in the evolution of gaseous transmission. Scientific Reports, 2020, 10, 13020.	3.3	37
48	Glycine as a signaling molecule and chemoattractant in Trichoplax (Placozoa): insights into the early evolution of neurotransmitters. NeuroReport, 2020, 31, 490-497.	1.2	27
49	Projections of the mediolateral part of the lateral septum to the hypothalamus, revealed by Fos expression and axonal tracing in rats. Anatomy and Embryology, 1999, 199, 249-263.	1.5	22
50	The function of glutamatergic synapses is not perturbed by severe knockdown of 4.1N and 4.1G expression. Journal of Cell Science, 2009, 122, 735-744.	2.0	22
51	Hidden cell diversity in Placozoa: ultrastructural insights from Hoilungia hongkongensis. Cell and Tissue Research, 2021, 385, 623-637.	2.9	22
52	Choanoflagellates and the ancestry of neurosecretory vesicles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190759.	4.0	17
53	The transcription factor Uncx4.1 acts in a short window of midbrain dopaminergic neuron differentiation. Neural Development, 2012, 7, 39.	2.4	14
54	Hypothalamo-septal enkephalinergic fibers terminate on AMPA receptor-containing neurons in the rat lateral septal area. , 1997, 25, 263-271.		8

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55	Loss of Neuroligin3 specifically downregulates retinal GABAAÎ±2 receptors without abolishing direction selectivity. PLoS ONE, 2017, 12, e0181011.	2.5	8
56	Dual (excitatory and inhibitory) calretinin innervation of AMPA receptor-containing neurons in the rat lateral septum. Experimental Brain Research, 1998, 119, 65-72.	1.5	6
57	Heterogeneous Presynaptic Distribution of Munc13 Isoforms at Retinal Synapses and Identification of an Unconventional Bipolar Cell Type with Dual Expression of Munc13 Isoforms: A Study Using Munc13-EXFP Knock-in Mice. International Journal of Molecular Sciences, 2020, 21, 7848.	4.1	3
58	Neurochemical characterization of AMPA receptor-containing neurons in the mediolateral septal area of the rat. Experimental Brain Research, 1997, 114, 454-460.	1.5	2