Erica Seigneur

List of Publications by Year
in descending order

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143 papers	24,761 citations	20817 60 h-index	9589 142 g-index
150 all docs	150 docs citations	150 times ranked	24372 citing authors

#	Article	IF	Citations
1	RIBEYE B-Domain Is Essential for RIBEYE A-Domain Stability and Assembly of Synaptic Ribbons. Frontiers in Molecular Neuroscience, 2022, 15, 838311.	2.9	4
2	Treatment of a genetic brain disease by CNS-wide microglia replacement. Science Translational Medicine, 2022, 14, eabl9945.	12.4	45
3	Engineered synaptic tools reveal localized cAMP signaling in synapse assembly. Journal of Cell Biology, 2022, 221, .	5.2	5
4	Deletion of Calsyntenin-3, an atypical cadherin, suppresses inhibitory synapses but increases excitatory parallel-fiber synapses in cerebellum. ELife, 2022, 11, .	6.0	4
5	Teneurins assemble into presynaptic nanoclusters that promote synapse formation via postsynaptic non-teneurin ligands. Nature Communications, 2022, 13, 2297.	12.8	17
6	Transsynaptic cerebellin 4â€“neogenin 1 signaling mediates LTP in the mouse dentate gyrus. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2123421119.	7.1	6
7	Myt1l haploinsufficiency leads to obesity and multifaceted behavioral alterations in mice. Molecular Autism, 2022, 13, 19.	4.9	10
8	Induction of synapse formation by de novo neurotransmitter synthesis. Nature Communications, 2022, 13, .	12.8	6
9	Neuroligin-3 confines AMPA receptors into nanoclusters, thereby controlling synaptic strength at the calyx of Held synapses. Science Advances, 2022, 8, .	10.3	17
10	A simple Ca2+-imaging approach to neural network analyses in cultured neurons. Journal of Neuroscience Methods, 2021, 349, 109041.	2.5	21
11	Multiple signaling pathways are essential for synapse formation induced by synaptic adhesion molecules. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
12	Latrophilin GPCR signaling mediates synapse formation. ELife, 2021, 10, .	6.0	44
13	The Perils of Navigating Activity-Dependent Alternative Splicing of Neurexins. Frontiers in Molecular Neuroscience, 2021, 14, 659681.	2.9	10
14	Neurexins regulate presynaptic GABAB-receptors at central synapses. Nature Communications, 2021, 12, 2380.	12.8	24
15	Cannabinoid receptor activation acutely increases synaptic vesicle numbers by activating synapsins in human synapses. Molecular Psychiatry, 2021, 26, 6253-6268.	7.9	15
16	Biallelic variants in TSPOAP1, encoding the active-zone protein RIMBP1, cause autosomal recessive dystonia. Journal of Clinical Investigation, 2021, 131, .	8.2	18
17	Cross-platform validation of neurotransmitter release impairments in schizophrenia patient-derived NRXN1 -mutant neurons. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	49
18	GluD1 is a signal transduction device disguised as an ionotropic receptor. Nature, 2021, 595, 261-265.	27.8	51

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19	Cerebellin-2 regulates a serotonergic dorsal raphe circuit that controls compulsive behaviors. Molecular Psychiatry, 2021, 26, 7509-7521.	7.9	18
20	RTN4/NoGo-receptor binding to BAI adhesion-GPCRs regulates neuronal development. Cell, 2021, 184, 5869-5885.e25.	28.9	45
21	Molecular self-avoidance in synaptic neurexin complexes. Science Advances, 2021, 7, eabk1924.	10.3	9
22	CB1 receptor activation rapidly alters synaptic vesicle numbers in mouse hippocampal synapses. Molecular Psychiatry, 2021, 26, 6103-6103.	7.9	0
23	Continuous and Discrete Neuron Types of the Adult Murine Striatum. Neuron, 2020, 105, 688-699.e8.	8.1	92
24	Persistent transcriptional programmes are associated with remote memory. Nature, 2020, 587, 437-442.	27.8	61
25	A Trio of Active Zone Proteins Comprised of RIM-BPs, RIMs, and Munc13s Governs Neurotransmitter Release. Cell Reports, 2020, 32, 107960.	6.4	43
26	A Synaptic Circuit Required for Acquisition but Not Recall of Social Transmission of Food Preference. Neuron, 2020, 107, 144-157.e4.	8.1	40
27	Neurexins cluster Ca ²⁺ channels within the presynaptic active zone. EMBO Journal, 2020, 39, e103208.	7.8	58
28	Pro-neuronal activity of Myod1 due to promiscuous binding to neuronal genes. Nature Cell Biology, 2020, 22, 401-411.	10.3	38
29	Evolution of the Autism-Associated Neuroligin-4 Gene Reveals Broad Erosion of Pseudoautosomal Regions in Rodents. Molecular Biology and Evolution, 2020, 37, 1243-1258.	8.9	19
30	Alternative splicing controls teneurin-latrophilin interaction and synapse specificity by a shape-shifting mechanism. Nature Communications, 2020, 11, 2140.	12.8	36
31	Deorphanizing FAM19A proteins as pan-neurexin ligands with an unusual biosynthetic binding mechanism. Journal of Cell Biology, 2020, 219, .	5.2	26
32	LAR receptor phospho-tyrosine phosphatases regulate NMDA-receptor responses. ELife, 2020, 9, .	6.0	40
33	Latrophilin-2 and latrophilin-3 are redundantly essential for parallel-fiber synapse function in cerebellum. ELife, 2020, 9, .	6.0	21
34	Differential Signaling Mediated by ApoE2, ApoE3, and ApoE4 in Human Neurons Parallels Alzheimer's Disease Risk. Journal of Neuroscience, 2019, 39, 7408-7427.	3.6	85
35	Synaptic neurexin-1 assembles into dynamically regulated active zone nanoclusters. Journal of Cell Biology, 2019, 218, 2677-2698.	5.2	78
36	Neuroligin-4 Regulates Excitatory Synaptic Transmission in Human Neurons. Neuron, 2019, 103, 617-626.e6.	8.1	75

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37	Structures of neurexophilinâ€“neurexin complexes reveal a regulatory mechanism of alternative splicing. EMBO Journal, 2019, 38, e101603.	7.8	19
38	Neuromodulator Signaling Bidirectionally Controls Vesicle Numbers in Human Synapses. Cell, 2019, 179, 498-513.e22.	28.9	59
39	Direct Reprogramming of Human Neurons Identifies MARCKSL1 as a Pathogenic Mediator of Valproic Acid-Induced Teratogenicity. Cell Stem Cell, 2019, 25, 103-119.e6.	11.1	43
40	SynGO: An Evidence-Based, Expert-Curated Knowledge Base for the Synapse. Neuron, 2019, 103, 217-234.e4.	8.1	518
41	Specific factors in blood from young but not old mice directly promote synapse formation and NMDA-receptor recruitment. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12524-12533.	7.1	82
42	Ablation of All Synaptobrevin vSNAREs Blocks Evoked But Not Spontaneous Neurotransmitter Release at Neuromuscular Synapses. Journal of Neuroscience, 2019, 39, 6049-6066.	3.6	21
43	Alternative Splicing of Presynaptic Neurexins Differentially Controls Postsynaptic NMDA and AMPA Receptor Responses. Neuron, 2019, 102, 993-1008.e5.	8.1	99
44	Neuroligin-1 Signaling Controls LTP and NMDA Receptors by Distinct Molecular Pathways. Neuron, 2019, 102, 621-635.e3.	8.1	67
45	Synaptic retinoic acid receptor signaling mediates mTOR-dependent metaplasticity that controls hippocampal learning. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7113-7122.	7.1	40
46	Latrophilin GPCRs direct synapse specificity by coincident binding of FLRTs and teneurins. Science, 2019, 363, .	12.6	169
47	A toolbox of nanobodies developed and validated for use as intrabodies and nanoscale immunolabels in mammalian brain neurons. ELife, 2019, 8, .	6.0	39
48	Genetic Ablation of All Cerebellins Reveals Synapse Organizer Functions in Multiple Regions Throughout the Brain. Journal of Neuroscience, 2018, 38, 4774-4790.	3.6	58
49	The Neurobiology of Opioid Addiction and the Potential for Prevention Strategies. JAMA - Journal of the American Medical Association, 2018, 319, 2071.	7.4	22
50	Structural Basis for Teneurin Function in Circuit-Wiring: A Toxin Motif at the Synapse. Cell, 2018, 173, 735-748.e15.	28.9	119
51	Autism-associated neuroligin-4 mutation selectively impairs glycinergic synaptic transmission in mouse brainstem synapses. Journal of Experimental Medicine, 2018, 215, 1543-1553.	8.5	27
52	Cell Biology and Pathophysiology of Î±-Synuclein. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a024091.	6.2	353
53	Cbln2 and Cbln4 are expressed in distinct medial habenula-interpeduncular projections and contribute to different behavioral outputs. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10235-E10244.	7.1	25
54	Retinoic Acid Receptor RARÎ±-Dependent Synaptic Signaling Mediates Homeostatic Synaptic Plasticity at the Inhibitory Synapses of Mouse Visual Cortex. Journal of Neuroscience, 2018, 38, 10454-10466.	3.6	36

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55	Towards an Understanding of Synapse Formation. Neuron, 2018, 100, 276-293.	8.1	445
56	A central amygdala to zona incerta projection is required for acquisition and remote recall of conditioned fear memory. Nature Neuroscience, 2018, 21, 1515-1519.	14.8	80
57	Deletion of LRRTM1 and LRRTM2 in adult mice impairs basal AMPA receptor transmission and LTP in hippocampal CA1 pyramidal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5382-E5389.	7.1	51
58	<scp>RIM</scp> â€binding proteins recruit BKâ€channels to presynaptic release sites adjacent to voltageâ€gated Ca ²⁺ â€channels. EMBO Journal, 2018, 37, .	7.8	15
59	The fragile X mutation impairs homeostatic plasticity in human neurons by blocking synaptic retinoic acid signaling. Science Translational Medicine, 2018, 10, .	12.4	79
60	Transdifferentiation of human adult peripheral blood T cells into neurons. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6470-6475.	7.1	71
61	ApoE2, ApoE3, and ApoE4 Differentially Stimulate APP Transcription and AÎ² Secretion. Cell, 2017, 168, 427-441.e21.	28.9	372
62	Modulation of excitation on parvalbumin interneurons by neuroligin-3 regulates the hippocampal network. Nature Neuroscience, 2017, 20, 219-229.	14.8	71
63	Carbonic anhydrase-related protein CA10 is an evolutionarily conserved pan-neurexin ligand. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1253-E1262.	7.1	81
64	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
65	Generation of pure GABAergic neurons by transcription factor programming. Nature Methods, 2017, 14, 621-628.	19.0	265
66	Conditional Deletion of All Neurexins Defines Diversity of Essential Synaptic Organizer Functions for Neurexins. Neuron, 2017, 94, 611-625.e4.	8.1	170
67	Synaptotagmin-7-Mediated Asynchronous Release Boosts High-Fidelity Synchronous Transmission at a Central Synapse. Neuron, 2017, 94, 826-839.e3.	8.1	81
68	Anatomical and Behavioral Investigation of C1ql3 in the Mouse Suprachiasmatic Nucleus. Journal of Biological Rhythms, 2017, 32, 222-236.	2.6	15
69	Myt1l safeguards neuronal identity by actively repressing many non-neuronal fates. Nature, 2017, 544, 245-249.	27.8	180
70	Postsynaptic synaptotagmins mediate AMPA receptor exocytosis during LTP. Nature, 2017, 544, 316-321.	27.8	153
71	Presynaptic Neuronal Pentraxin Receptor Organizes Excitatory and Inhibitory Synapses. Journal of Neuroscience, 2017, 37, 1062-1080.	3.6	102
72	Molecular Neuroscience in the 21st Century: A Personal Perspective. Neuron, 2017, 96, 536-541.	8.1	58

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73	Synaptic Neurexin Complexes: A Molecular Code for the Logic of Neural Circuits. Cell, 2017, 171, 745-769.	28.9	608
74	Postsynaptic adhesion GPCR latrophilin-2 mediates target recognition in entorhinal-hippocampal synapse assembly. Journal of Cell Biology, 2017, 216, 3831-3846.	5.2	86
75	Exceptionally tight membrane-binding may explain the key role of the synaptotagmin-7 C ₂ A domain in asynchronous neurotransmitter release. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8518-E8527.	7.1	42
76	Efficient stimulus-secretion coupling at ribbon synapses requires RIM-binding protein tethering of L-type Ca ²⁺ channels. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8081-E8090.	7.1	26
77	Cerebellins are differentially expressed in selective subsets of neurons throughout the brain. Journal of Comparative Neurology, 2017, 525, 3286-3311.	1.6	48
78	The primed SNAREâ€“complexinâ€“synaptotagmin complex for neuronal exocytosis. Nature, 2017, 548, 420-425.	27.8	229
79	IGF1-Dependent Synaptic Plasticity of Mitral Cells in Olfactory Memory during Social Learning. Neuron, 2017, 95, 106-122.e5.	8.1	48
80	FoxO3 regulates neuronal reprogramming of cells from postnatal and aging mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8514-8519.	7.1	24
81	Conditional deletion of L1CAM in human neurons impairs both axonal and dendritic arborization and action potential generation. Journal of Experimental Medicine, 2016, 213, 499-515.	8.5	56
82	Expression of C1ql3 in Discrete Neuronal Populations Controls Efferent Synapse Numbers andÂDiverse Behaviors. Neuron, 2016, 91, 1034-1051.	8.1	75
83	Neuroligins Are Selectively Essential for NMDAR Signaling in Cerebellar Stellate Interneurons. Journal of Neuroscience, 2016, 36, 9070-9083.	3.6	34
84	Single-cell RNAseq reveals cell adhesion molecule profiles in electrophysiologically defined neurons. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5222-31.	7.1	162
85	How to Make an Active Zone: Unexpected Universal Functional Redundancy between RIMs and RIM-BPs. Neuron, 2016, 91, 792-807.	8.1	133
86	Cellular Taxonomy of the Mouse Striatum as Revealed by Single-Cell RNA-Seq. Cell Reports, 2016, 16, 1126-1137.	6.4	344
87	C-terminal domain of mammalian complexin-1 localizes to highly curved membranes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7590-E7599.	7.1	66
88	Autism-associated SHANK3 haploinsufficiency causes I _h channelopathy in human neurons. Science, 2016, 352, aaf2669.	12.6	270
89	The conditional KO approach: Cre/Lox technology in human neurons. Rare Diseases (Austin, Tex), 2016, 4, e1131884.	1.8	10
90	Truth in Science Publishing: A Personal Perspective. PLoS Biology, 2016, 14, e1002547.	5.6	7

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91	Extended Synaptotagmin (ESyt) Triple Knock-Out Mice Are Viable and Fertile without Obvious Endoplasmic Reticulum Dysfunction. PLoS ONE, 2016, 11, e0158295.	2.5	58
92	Distinct circuit-dependent functions of presynaptic neurexin-3 at GABAergic and glutamatergic synapses. Nature Neuroscience, 2015, 18, 997-1007.	14.8	109
93	Dynamic binding mode of a Synaptotagmin-1â€“SNARE complex in solution. Nature Structural and Molecular Biology, 2015, 22, 555-564.	8.2	129
94	Experimental mismatch in neural circuits. Nature, 2015, 528, 338-339.	27.8	17
95	Î²-Neurexins Control Neural Circuits by Regulating Synaptic Endocannabinoid Signaling. Cell, 2015, 162, 593-606.	28.9	123
96	Structural Basis of Latrophilin-FLRT-UNC5 Interaction in Cell Adhesion. Structure, 2015, 23, 1678-1691.	3.3	101
97	Single-Cell mRNA Profiling Reveals Cell-Type-Specific Expression of Neurexin Isoforms. Neuron, 2015, 87, 326-340.	8.1	144
98	Synaptic Function of Rab11Fip5: Selective Requirement for Hippocampal Long-Term Depression. Journal of Neuroscience, 2015, 35, 7460-7474.	3.6	21
99	Structures of C1q-like Proteins Reveal Unique Features among the C1q/TNF Superfamily. Structure, 2015, 23, 688-699.	3.3	56
100	Definition of a Molecular Pathway Mediating Î±-Synuclein Neurotoxicity. Journal of Neuroscience, 2015, 35, 5221-5232.	3.6	168
101	Retinoic Acid and LTP Recruit Postsynaptic AMPA Receptors Using Distinct SNARE-Dependent Mechanisms. Neuron, 2015, 86, 442-456.	8.1	72
102	RIM-BPs Mediate Tight Coupling of Action Potentials to Ca 2+ -Triggered Neurotransmitter Release. Neuron, 2015, 87, 1234-1247.	8.1	97
103	Synaptotagmin-7 Is Essential for Ca2+-Triggered Delayed Asynchronous Release But Not for Ca2+-Dependent Vesicle Priming in Retinal Ribbon Synapses. Journal of Neuroscience, 2015, 35, 11024-11033.	3.6	53
104	Synaptotagmin-7 phosphorylation mediates GLP-1â€“dependent potentiation of insulin secretion from Î²-cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9996-10001.	7.1	65
105	Ubiquitinâ€“Synaptobrevin Fusion Protein Causes Degeneration of Presynaptic Motor Terminals in Mice. Journal of Neuroscience, 2015, 35, 11514-11531.	3.6	16
106	Human Neuropsychiatric Disease Modeling using Conditional Deletion Reveals Synaptic Transmission Defects Caused by Heterozygous Mutations in NRXN1. Cell Stem Cell, 2015, 17, 316-328.	11.1	187
107	Propagation of prions causing synucleinopathies in cultured cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4949-58.	7.1	191
108	Architecture of the synaptotagminâ€“SNARE machinery for neuronal exocytosis. Nature, 2015, 525, 62-67.	27.8	268

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109	Neuroligins Sculpt Cerebellar Purkinje-Cell Circuits by Differential Control of Distinct Classes of Synapses. Neuron, 2015, 87, 781-796.	8.1	128
110	RIM1 and RIM2 redundantly determine Ca²⁺ channel density and readily releasable pool size at a large hindbrain synapse. Journal of Neurophysiology, 2015, 113, 255-263.	1.8	34
111	Synaptotagmin-1 and -7 Are Redundantly Essential for Maintaining the Capacity of the Readily-Releasable Pool of Synaptic Vesicles. PLoS Biology, 2015, 13, e1002267.	5.6	71
112	Synaptic function of nicastrin in hippocampal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8973-8978.	7.1	27
113	Direct Visualization ofTrans-Synaptic Neurexinâ€“Neuroligin Interactions during Synapse Formation. Journal of Neuroscience, 2014, 34, 15083-15096.	3.6	51
114	The Molecular Machinery of Neurotransmitter Release (Nobel Lecture). Angewandte Chemie - International Edition, 2014, 53, 12696-12717.	13.8	145
115	The Morphological and Molecular Nature of Synaptic Vesicle Priming at Presynaptic Active Zones. Neuron, 2014, 84, 416-431.	8.1	344
116	Î±-Synuclein assembles into higher-order multimers upon membrane binding to promote SNARE complex formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E4274-83.	7.1	382
117	Autism-Associated Neuroligin-3 Mutations Commonly Impair Striatal Circuits to Boost Repetitive Behaviors. Cell, 2014, 158, 198-212.	28.9	397
118	The Active Zone Protein Family ELKS Supports Ca²⁺Influx at Nerve Terminals of Inhibitory Hippocampal Neurons. Journal of Neuroscience, 2014, 34, 12289-12303.	3.6	66
119	Generation of Induced Neuronal Cells by the Single Reprogramming Factor ASCL1. Stem Cell Reports, 2014, 3, 282-296.	4.8	312
120	Structure and Ca2+-Binding Properties of the Tandem C2 Domains of E-Syt2. Structure, 2014, 22, 269-280.	3.3	41
121	Calsyntenins Function as Synaptogenic Adhesion Molecules in Concert with Neurexins. Cell Reports, 2014, 6, 1096-1109.	6.4	71
122	Microsecond Dissection of Neurotransmitter Release: SNARE-Complex Assembly Dictates Speed and Ca2+ Sensitivity. Neuron, 2014, 82, 1088-1100.	8.1	56
123	Der molekulare Mechanismus der Neurotransmitterfreisetzung und Nervenzellâ€Synapsen (Nobelâ€Aufsatz). Angewandte Chemie, 2014, 126, 12906-12931.	2.0	3
124	Neurotransmitter Release: The Last Millisecond in the Life of a Synaptic Vesicle. Neuron, 2013, 80, 675-690.	8.1	952
125	A molecular machine for neurotransmitter release: synaptotagmin and beyond. Nature Medicine, 2013, 19, 1227-1231.	30.7	158
126	High Affinity Neurexin Binding to Cell Adhesion G-protein-coupled Receptor CIRL1/Latrophilin-1 Produces an Intercellular Adhesion Complex. Journal of Biological Chemistry, 2012, 287, 9399-9413.	3.4	147

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127	The Presynaptic Active Zone. Neuron, 2012, 75, 11-25.	8.1	863
128	Calcium Control of Neurotransmitter Release. Cold Spring Harbor Perspectives in Biology, 2012, 4, a011353-a011353.	5.5	352
129	Synaptic Vesicle Exocytosis. Cold Spring Harbor Perspectives in Biology, 2011, 3, a005637-a005637.	5.5	399
130	Membrane Fusion: Grappling with SNARE and SM Proteins. Science, 2009, 323, 474-477.	12.6	1,754
131	Neuroligins and neurexins link synaptic function to cognitive disease. Nature, 2008, 455, 903-911.	27.8	1,577
132	Understanding Synapses: Past, Present, and Future. Neuron, 2008, 60, 469-476.	8.1	153
133	Membrane fusion as a team effort. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13541-13542.	7.1	21
134	Synaptic Vesicles: An Organelle Comes of Age. Cell, 2006, 127, 671-673.	28.9	15
135	THE SYNAPTIC VESICLE CYCLE. Annual Review of Neuroscience, 2004, 27, 509-547.	10.7	2,090
136	Structure and Evolution of Neurexin Genes: Insight into the Mechanism of Alternative Splicing. Genomics, 2002, 79, 849-859.	2.9	255
137	Î±-Latrotoxin and Its Receptors: Neurexins and CIRL/Latrophilins. Annual Review of Neuroscience, 2001, 24, 933-962.	10.7	204
138	Munc13-1 is essential for fusion competence of glutamatergic synaptic vesicles. Nature, 1999, 400, 457-461.	27.8	664
139	Membrane Fusion and Exocytosis. Annual Review of Biochemistry, 1999, 68, 863-911.	11.1	1,136
140	Synaptic vesicle fusion complex contains unc-18 homologue bound to syntaxin. Nature, 1993, 366, 347-351.	27.8	682
141	A small GTP-binding protein dissociates from synaptic vesicles during exocytosis. Nature, 1991, 349, 79-81.	27.8	438
142	Phospholipid binding by a synaptic vesicle protein homologous to the regulatory region of protein kinase C. Nature, 1990, 345, 260-263.	27.8	788
143	Putative receptor for inositol 1,4,5-trisphosphate similar to ryanodine receptor. Nature, 1989, 342, 192-195.	27.8	547