Shuzo Sugita

List of Publications by Year in descending order

68 papers	4,464 citations	109264 35 h-index	106281 65 g-index
71 all docs	71 docs citations	71 times ranked	4406 citing authors

#	Article	IF	Citations
1	A conformational switch in syntaxin during exocytosis: role of munc18. EMBO Journal, 1999, 18, 4372-4382.	3.5	622
2	A stoichiometric complex of neurexins and dystroglycan in brain. Journal of Cell Biology, 2001, 154, 435-446.	2.3	389
3	Synaptotagmins form a hierarchy of exocytotic Ca2+sensors with distinct Ca2+affinities. EMBO Journal, 2002, 21, 270-280.	3.5	251
4	The RIM/NIM Family of Neuronal C2 Domain Proteins. Journal of Biological Chemistry, 2000, 275, 20033-20044.	1.6	217
5	Synaptotagmin VII as a Plasma Membrane Ca2+ Sensor in Exocytosis. Neuron, 2001, 30, 459-473.	3.8	207
6	Lysosomal calcium homeostasis defects, not proton pump defects, cause endo-lysosomal dysfunction in PSEN-deficient cells. Journal of Cell Biology, 2012, 198, 23-35.	2.3	187
7	Î±-Latrotoxin Receptor CIRL/Latrophilin 1 (CL1) Defines an Unusual Family of Ubiquitous G-protein-linked Receptors. Journal of Biological Chemistry, 1998, 273, 32715-32724.	1.6	159
8	Distinct Ca2+-dependent Properties of the First and Second C2-domains of Synaptotagmin I. Journal of Biological Chemistry, 1996, 271, 1262-1265.	1.6	132
9	Sr2+ Binding to the Ca2+ Binding Site of the Synaptotagmin 1 C2B Domain Triggers Fast Exocytosis without Stimulating SNARE Interactions. Neuron, 2003, 37, 99-108.	3.8	121
10	Involvement of protein kinase C in serotonin-induced spike broadening and synaptic facilitation in sensorimotor connections of Aplysia. Journal of Neurophysiology, 1992, 68, 643-651.	0.9	105
11	Neurexins Are Functional Î±-Latrotoxin Receptors. Neuron, 1999, 22, 489-496.	3.8	89
12	Synaptogyrins Regulate Ca2+-dependent Exocytosis in PC12 Cells. Journal of Biological Chemistry, 1999, 274, 18893-18901.	1.6	84
13	A conformational switch in the Piccolo C2A domain regulated by alternative splicing. Nature Structural and Molecular Biology, 2004, 11, 45-53.	3.6	84
14	Munc18-1 Is Critical for Plasma Membrane Localization of Syntaxin1 but Not of SNAP-25 in PC12 Cells. Molecular Biology of the Cell, 2008, 19, 722-734.	0.9	82
15	Î±-Latrotoxin action probed with recombinant toxin: receptors recruit Î±-latrotoxin but do not transduce an exocytotic signal. EMBO Journal, 1998, 17, 6188-6199.	3.5	80
16	Autoinhibition of Munc18-1 modulates synaptobrevin binding and helps to enable Munc13-dependent regulation of membrane fusion. ELife, 2017, 6, .	2.8	80
17	Rescue of Munc18-1 and -2 Double Knockdown Reveals the Essential Functions of Interaction between Munc18 and Closed Syntaxin in PC12 Cells. Molecular Biology of the Cell, 2009, 20, 4962-4975.	0.9	73
18	Î±-Latrotoxin and Its Receptors. Handbook of Experimental Pharmacology, 2008, , 171-206.	0.9	72

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19	Munc18â€1 as a key regulator of neurosecretion. Journal of Neurochemistry, 2010, 115, 1-10.	2.1	70
20	Munc18-1 domain-1 controls vesicle docking and secretion by interacting with syntaxin-1 and chaperoning it to the plasma membrane. Molecular Biology of the Cell, 2011, 22, 4134-4149.	0.9	69
21	Syntaxin-3 regulates newcomer insulin granule exocytosis and compound fusion in pancreatic beta cells. Diabetologia, 2013, 56, 359-369.	2.9	66
22	Â-Latrotoxin Stimulates a Novel Pathway of Ca2+-Dependent Synaptic Exocytosis Independent of the Classical Synaptic Fusion Machinery. Journal of Neuroscience, 2009, 29, 8639-8648.	1.7	63
23	Specificity of Ca2+-Dependent Protein Interactions Mediated by the C2A Domains of Synaptotagmins. Biochemistry, 2000, 39, 2940-2949.	1.2	56
24	Vacuolar H⁺-ATPase subunits Voa1 and Voa2 cooperatively regulate secretory vesicle acidification, transmitter uptake, and storage. Molecular Biology of the Cell, 2011, 22, 3394-3409.	0.9	56
25	Modulation of a cAMP/Protein Kinase A Cascade by Protein Kinase C in Sensory Neurons ofAplysia. Journal of Neuroscience, 1997, 17, 7237-7244.	1.7	53
26	RalA-Exocyst Interaction Mediates GTP-dependent Exocytosis. Journal of Biological Chemistry, 2004, 279, 19875-19881.	1.6	53
27	The Munc18-1 domain 3a loop is essential for neuroexocytosis but not for syntaxin-1A transport to the plasma membrane. Journal of Cell Science, 2013, 126, 2353-2360.	1.2	47
28	Crystal Structure of the Second LNS/LG Domain from Neurexin 1Î±. Journal of Biological Chemistry, 2006, 281, 22896-22905.	1.6	46
29	Ca2+-dependent Activator Protein for Secretion 1 Is Critical for Constitutive and Regulated Exocytosis but Not for Loading of Transmitters into Dense Core Vesicles. Journal of Biological Chemistry, 2007, 282, 21392-21403.	1.6	42
30	Abrogating Munc18-1-SNARE Complex Interaction Has Limited Impact on Exocytosis in PC12 Cells. Journal of Biological Chemistry, 2009, 284, 21637-21646.	1.6	40
31	Activators of protein kinase C mimic serotonin-induced modulation of a voltage-dependent potassium current in pleural sensory neurons of Aplysia. Journal of Neurophysiology, 1994, 72, 1240-1249.	0.9	39
32	Munc18b Is a Major Mediator of Insulin Exocytosis in Rat Pancreatic Î²-Cells. Diabetes, 2013, 62, 2416-2428.	0.3	39
33	UNC-18 and Tomosyn Antagonistically Control Synaptic Vesicle Priming Downstream of UNC-13 in Caenorhabditis elegans. Journal of Neuroscience, 2017, 37, 8797-8815.	1.7	39
34	Regulation of PINK1 by NR2Bâ€containing NMDA receptors in ischemic neuronal injury. Journal of Neurochemistry, 2009, 111, 1149-1160.	2.1	37
35	Cholesterol-Dependent Kinase Activity Regulates Transmitter Release from Cerebellar Synapses. Journal of Neuroscience, 2010, 30, 6116-6121.	1.7	37
36	Diverse exocytic pathways for mast cell mediators. Biochemical Society Transactions, 2018, 46, 235-247.	1.6	37

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37	Systemic Polyethylene Glycol Promotes Neurological Recovery and Tissue Sparing in Rats After Cervical Spinal Cord Injury. Journal of Neuropathology and Experimental Neurology, 2009, 68, 661-676.	0.9	36
38	Mechanisms of exocytosis. Acta Physiologica, 2008, 192, 185-193.	1.8	33
39	Crucial role of the hydrophobic pocket region of Munc18 protein in mast cell degranulation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4610-4615.	3.3	32
40	A Pivotal Role for Pro-335 in Balancing the Dual Functions of Munc18-1 Domain-3a in Regulated Exocytosis. Journal of Biological Chemistry, 2014, 289, 33617-33628.	1.6	32
41	RalA and RalB Function as the Critical GTP Sensors for GTP-Dependent Exocytosis. Journal of Neuroscience, 2007, 27, 190-202.	1.7	31
42	Differential Effects of 4-Aminopyridine, Serotonin, and Phorbol Esters on Facilitation of Sensorimotor Connections in Aplysia. Journal of Neurophysiology, 1997, 77, 177-185.	0.9	28
43	Crucial Role of Postsynaptic Syntaxin 4 in Mediating Basal Neurotransmission and Synaptic Plasticity in Hippocampal CA1 Neurons. Cell Reports, 2018, 23, 2955-2966.	2.9	26
44	The domain-3a of Munc18-1 plays a crucial role at the priming stage of exocytosis. Journal of Cell Science, 2013, 126, 2361-71.	1.2	25
45	N-Terminal Insertion and C-Terminal Ankyrin-Like Repeats of Â-Latrotoxin Are Critical for Ca2+-Dependent Exocytosis. Journal of Neuroscience, 2005, 25, 10188-10197.	1.7	23
46	Extracellular phosphorylation drives the formation of neuronal circuitry. Nature Chemical Biology, 2019, 15, 1035-1042.	3.9	22
47	Propofol-induced Inhibition of Catecholamine Release Is Reversed by Maintaining Calcium Influx. Anesthesiology, 2016, 124, 878-884.	1.3	19
48	Continuous Monitoring via Tethered Electroencephalography of Spontaneous Recurrent Seizures in Mice. Frontiers in Behavioral Neuroscience, 2017, 11, 172.	1.0	18
49	C2 Domains of Munc13-4 Are Crucial for Ca2+-Dependent Degranulation and Cytotoxicity in NK Cells. Journal of Immunology, 2018, 201, 700-713.	0.4	18
50	Open syntaxin overcomes exocytosis defects of diverse mutants in C. elegans. Nature Communications, 2020, 11, 5516.	5.8	18
51	Ï'-secretase and LARG mediate distinct RGMa activities to control appropriate layer targeting within the optic tectum. Cell Death and Differentiation, 2016, 23, 442-453.	5.0	17
52	Munc18b Increases Insulin Granule Fusion, Restoring Deficient Insulin Secretion in Type-2 Diabetes Human and Goto-Kakizaki Rat Islets with Improvement in Glucose Homeostasis. EBioMedicine, 2017, 16, 262-274.	2.7	17
53	A Central Kinase Domain of Type I Phosphatidylinositol Phosphate Kinases Is Sufficient to Prime Exocytosis. Journal of Biological Chemistry, 2005, 280, 16522-16527.	1.6	16
54	cAMP-independent effects of 8-(4-parachlorophenylthio)-cyclic AMP on spike duration and membrane currents in pleural sensory neurons of Aplysia. Journal of Neurophysiology, 1994, 72, 1250-1259.	0.9	14

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55	Human growth hormone co-transfection assay to study molecular mechanisms of neurosecretion in PC12 cells. Methods, 2004, 33, 267-272.	1.9	13
56	Calcium-dependent Activator Protein for Secretion 1 (CAPS1) Binds to Syntaxin-1 in a Distinct Mode from Munc13-1. Journal of Biological Chemistry, 2013, 288, 23050-23063.	1.6	13
57	Conformational states of syntaxin-1 govern the necessity of N-peptide binding in exocytosis of PC12 cells and Caenorhabditis elegans. Molecular Biology of the Cell, 2016, 27, 669-685.	0.9	13
58	<scp>RalA GTPase</scp> Tethers Insulin Granules to Lâ€and Râ€Type Calcium Channels Through Binding Î±₂Î´â€1 Subunit. Traffic, 2013, 14, 428-439.	1.3	12
59	Cholesterol synthesis inhibition promotes axonal regeneration in the injured central nervous system. Neurobiology of Disease, 2021, 150, 105259.	2.1	12
60	Syntaxin-3 is dispensable for basal neurotransmission and synaptic plasticity in postsynaptic hippocampal CA1 neurons. Scientific Reports, 2020, 10, 709.	1.6	11
61	Chaperoning of closed syntaxin-3 through Lys46 and Glu59 in domain 1 of Munc18 proteins is indispensable for mast cell exocytosis. Journal of Cell Science, 2015, 128, 1946-1960.	1.2	8
62	Investigating the Role of SNARE Proteins in Trafficking of Postsynaptic Receptors using Conditional Knockouts. Neuroscience, 2019, 420, 22-31.	1.1	7
63	TNF Production in Activated RBL-2H3 Cells Requires Munc13-4. Inflammation, 2020, 43, 744-751.	1.7	6
64	Navigation through the Plasma Membrane Molecular Landscape Shapes Random Organelle Movement. Current Biology, 2017, 27, 408-414.	1.8	5
65	Observations From a Mouse Model of Forebrain Voa1 Knockout: Focus on Hippocampal Structure and Function. Frontiers in Cellular Neuroscience, 2019, 13, 484.	1.8	4
66	Novel role of glial syntaxinâ€1B in supporting neuronal survival. Journal of Neurochemistry, 2014, 130, 469-471.	2.1	3
67	Duration discrimination of empty intervals in the rat. Japanese Psychological Research, 1986, 28, 176-185.	0.4	3
68	In Reply. Anesthesiology, 2016, 125, 822-823.	1.3	1