

Shuzo Sugita

List of Publications by Year in descending order

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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	Cholesterol synthesis inhibition promotes axonal regeneration in the injured central nervous system. <i>Neurobiology of Disease</i> , 2021, 150, 105259.	2.1	12
2	TNF Production in Activated RBL-2H3 Cells Requires Munc13-4. <i>Inflammation</i> , 2020, 43, 744-751.	1.7	6
3	Open syntaxin overcomes exocytosis defects of diverse mutants in <i>C. elegans</i> . <i>Nature Communications</i> , 2020, 11, 5516.	5.8	18
4	Syntaxin-3 is dispensable for basal neurotransmission and synaptic plasticity in postsynaptic hippocampal CA1 neurons. <i>Scientific Reports</i> , 2020, 10, 709.	1.6	11
5	Observations From a Mouse Model of Forebrain <i>Voa1</i> Knockout: Focus on Hippocampal Structure and Function. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 484.	1.8	4
6	Extracellular phosphorylation drives the formation of neuronal circuitry. <i>Nature Chemical Biology</i> , 2019, 15, 1035-1042.	3.9	22
7	Investigating the Role of SNARE Proteins in Trafficking of Postsynaptic Receptors using Conditional Knockouts. <i>Neuroscience</i> , 2019, 420, 22-31.	1.1	7
8	Diverse exocytic pathways for mast cell mediators. <i>Biochemical Society Transactions</i> , 2018, 46, 235-247.	1.6	37
9	Crucial Role of Postsynaptic Syntaxin 4 in Mediating Basal Neurotransmission and Synaptic Plasticity in Hippocampal CA1 Neurons. <i>Cell Reports</i> , 2018, 23, 2955-2966.	2.9	26
10	C2 Domains of Munc13-4 Are Crucial for Ca ²⁺ -Dependent Degranulation and Cytotoxicity in NK Cells. <i>Journal of Immunology</i> , 2018, 201, 700-713.	0.4	18
11	Navigation through the Plasma Membrane Molecular Landscape Shapes Random Organelle Movement. <i>Current Biology</i> , 2017, 27, 408-414.	1.8	5
12	Munc18b Increases Insulin Granule Fusion, Restoring Deficient Insulin Secretion in Type-2 Diabetes Human and Goto-Kakizaki Rat Islets with Improvement in Glucose Homeostasis. <i>EBioMedicine</i> , 2017, 16, 262-274.	2.7	17
13	UNC-18 and Tomosyn Antagonistically Control Synaptic Vesicle Priming Downstream of UNC-13 in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2017, 37, 8797-8815.	1.7	39
14	Continuous Monitoring via Tethered Electroencephalography of Spontaneous Recurrent Seizures in Mice. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 172.	1.0	18
15	Autoinhibition of Munc18-1 modulates synaptobrevin binding and helps to enable Munc13-dependent regulation of membrane fusion. <i>ELife</i> , 2017, 6, .	2.8	80
16	Propofol-induced Inhibition of Catecholamine Release Is Reversed by Maintaining Calcium Influx. <i>Anesthesiology</i> , 2016, 124, 878-884.	1.3	19
17	In Reply. <i>Anesthesiology</i> , 2016, 125, 822-823.	1.3	1
18	Conformational states of syntaxin-1 govern the necessity of N-peptide binding in exocytosis of PC12 cells and <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2016, 27, 669-685.	0.9	13

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19	Î²-secretase and LARG mediate distinct RGMa activities to control appropriate layer targeting within the optic tectum. <i>Cell Death and Differentiation</i> , 2016, 23, 442-453.	5.0	17
20	Chaperoning of closed syntaxin-3 through Lys46 and Glu59 in domain 1 of Munc18 proteins is indispensable for mast cell exocytosis. <i>Journal of Cell Science</i> , 2015, 128, 1946-1960.	1.2	8
21	A Pivotal Role for Pro-335 in Balancing the Dual Functions of Munc18-1 Domain-3a in Regulated Exocytosis. <i>Journal of Biological Chemistry</i> , 2014, 289, 33617-33628.	1.6	32
22	Novel role of glial syntaxinâ€1B in supporting neuronal survival. <i>Journal of Neurochemistry</i> , 2014, 130, 469-471.	2.1	3
23	Syntaxin-3 regulates newcomer insulin granule exocytosis and compound fusion in pancreatic beta cells. <i>Diabetologia</i> , 2013, 56, 359-369.	2.9	66
24	Ra1 GTPase Tethers Insulin Granules to Lâ€and Râ€Type Calcium Channels Through Binding Î±2 Subunit. <i>Traffic</i> , 2013, 14, 428-439.	1.3	12
25	Munc18b Is a Major Mediator of Insulin Exocytosis in Rat Pancreatic Î²-Cells. <i>Diabetes</i> , 2013, 62, 2416-2428.	0.3	39
26	Calcium-dependent Activator Protein for Secretion 1 (CAPS1) Binds to Syntaxin-1 in a Distinct Mode from Munc13-1. <i>Journal of Biological Chemistry</i> , 2013, 288, 23050-23063.	1.6	13
27	Crucial role of the hydrophobic pocket region of Munc18 protein in mast cell degranulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4610-4615.	3.3	32
28	The Munc18-1 domain 3a loop is essential for neuroexocytosis but not for syntaxin-1A transport to the plasma membrane. <i>Journal of Cell Science</i> , 2013, 126, 2353-2360.	1.2	47
29	The domain-3a of Munc18-1 plays a crucial role at the priming stage of exocytosis. <i>Journal of Cell Science</i> , 2013, 126, 2361-71.	1.2	25
30	Lysosomal calcium homeostasis defects, not proton pump defects, cause endo-lysosomal dysfunction in PSEN-deficient cells. <i>Journal of Cell Biology</i> , 2012, 198, 23-35.	2.3	187
31	Vacuolar H ⁺ -ATPase subunits Voa1 and Voa2 cooperatively regulate secretory vesicle acidification, transmitter uptake, and storage. <i>Molecular Biology of the Cell</i> , 2011, 22, 3394-3409.	0.9	56
32	Munc18-1 domain-1 controls vesicle docking and secretion by interacting with syntaxin-1 and chaperoning it to the plasma membrane. <i>Molecular Biology of the Cell</i> , 2011, 22, 4134-4149.	0.9	69
33	Munc18â€1 as a key regulator of neurosecretion. <i>Journal of Neurochemistry</i> , 2010, 115, 1-10.	2.1	70
34	Cholesterol-Dependent Kinase Activity Regulates Transmitter Release from Cerebellar Synapses. <i>Journal of Neuroscience</i> , 2010, 30, 6116-6121.	1.7	37
35	Â-Latrotoxin Stimulates a Novel Pathway of Ca ²⁺ -Dependent Synaptic Exocytosis Independent of the Classical Synaptic Fusion Machinery. <i>Journal of Neuroscience</i> , 2009, 29, 8639-8648.	1.7	63
36	Abrogating Munc18-1-SNARE Complex Interaction Has Limited Impact on Exocytosis in PC12 Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 21637-21646.	1.6	40

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37	Rescue of Munc18-1 and -2 Double Knockdown Reveals the Essential Functions of Interaction between Munc18 and Closed Syntaxin in PC12 Cells. <i>Molecular Biology of the Cell</i> , 2009, 20, 4962-4975.	0.9	73
38	Regulation of PINK1 by NR2B-containing NMDA receptors in ischemic neuronal injury. <i>Journal of Neurochemistry</i> , 2009, 111, 1149-1160.	2.1	37
39	Systemic Polyethylene Glycol Promotes Neurological Recovery and Tissue Sparing in Rats After Cervical Spinal Cord Injury. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009, 68, 661-676.	0.9	36
40	Mechanisms of exocytosis. <i>Acta Physiologica</i> , 2008, 192, 185-193.	1.8	33
41	$\hat{1}\pm$ -Latrotoxin and Its Receptors. <i>Handbook of Experimental Pharmacology</i> , 2008, , 171-206.	0.9	72
42	Munc18-1 Is Critical for Plasma Membrane Localization of Syntaxin1 but Not of SNAP-25 in PC12 Cells. <i>Molecular Biology of the Cell</i> , 2008, 19, 722-734.	0.9	82
43	Ca ²⁺ -dependent Activator Protein for Secretion 1 Is Critical for Constitutive and Regulated Exocytosis but Not for Loading of Transmitters into Dense Core Vesicles. <i>Journal of Biological Chemistry</i> , 2007, 282, 21392-21403.	1.6	42
44	RalA and RalB Function as the Critical GTP Sensors for GTP-Dependent Exocytosis. <i>Journal of Neuroscience</i> , 2007, 27, 190-202.	1.7	31
45	Crystal Structure of the Second LNS/LG Domain from Neurexin 1 $\hat{1}\pm$. <i>Journal of Biological Chemistry</i> , 2006, 281, 22896-22905.	1.6	46
46	N-Terminal Insertion and C-Terminal Ankyrin-Like Repeats of \hat{A} -Latrotoxin Are Critical for Ca ²⁺ -Dependent Exocytosis. <i>Journal of Neuroscience</i> , 2005, 25, 10188-10197.	1.7	23
47	A Central Kinase Domain of Type I Phosphatidylinositol Phosphate Kinases Is Sufficient to Prime Exocytosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 16522-16527.	1.6	16
48	RalA-Exocyst Interaction Mediates GTP-dependent Exocytosis. <i>Journal of Biological Chemistry</i> , 2004, 279, 19875-19881.	1.6	53
49	A conformational switch in the Piccolo C2A domain regulated by alternative splicing. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 45-53.	3.6	84
50	Human growth hormone co-transfection assay to study molecular mechanisms of neurosecretion in PC12 cells. <i>Methods</i> , 2004, 33, 267-272.	1.9	13
51	Sr ²⁺ Binding to the Ca ²⁺ Binding Site of the Synaptotagmin 1 C2B Domain Triggers Fast Exocytosis without Stimulating SNARE Interactions. <i>Neuron</i> , 2003, 37, 99-108.	3.8	121
52	Synaptotagmins form a hierarchy of exocytotic Ca ²⁺ sensors with distinct Ca ²⁺ affinities. <i>EMBO Journal</i> , 2002, 21, 270-280.	3.5	251
53	Synaptotagmin VII as a Plasma Membrane Ca ²⁺ Sensor in Exocytosis. <i>Neuron</i> , 2001, 30, 459-473.	3.8	207
54	A stoichiometric complex of neurexins and dystroglycan in brain. <i>Journal of Cell Biology</i> , 2001, 154, 435-446.	2.3	389

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55	Specificity of Ca ²⁺ -Dependent Protein Interactions Mediated by the C2A Domains of Synaptotagmins. <i>Biochemistry</i> , 2000, 39, 2940-2949.	1.2	56
56	The RIM/NIM Family of Neuronal C2 Domain Proteins. <i>Journal of Biological Chemistry</i> , 2000, 275, 20033-20044.	1.6	217
57	Synaptogyrins Regulate Ca ²⁺ -dependent Exocytosis in PC12 Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 18893-18901.	1.6	84
58	A conformational switch in syntaxin during exocytosis: role of munc18. <i>EMBO Journal</i> , 1999, 18, 4372-4382.	3.5	622
59	Neurexins Are Functional $\hat{\pm}$ -Latrotoxin Receptors. <i>Neuron</i> , 1999, 22, 489-496.	3.8	89
60	$\hat{\pm}$ -Latrotoxin action probed with recombinant toxin: receptors recruit $\hat{\pm}$ -latrotoxin but do not transduce an exocytotic signal. <i>EMBO Journal</i> , 1998, 17, 6188-6199.	3.5	80
61	$\hat{\pm}$ -Latrotoxin Receptor C1RL/Latrophilin 1 (CL1) Defines an Unusual Family of Ubiquitous G-protein-linked Receptors. <i>Journal of Biological Chemistry</i> , 1998, 273, 32715-32724.	1.6	159
62	Modulation of a cAMP/Protein Kinase A Cascade by Protein Kinase C in Sensory Neurons of Aplysia. <i>Journal of Neuroscience</i> , 1997, 17, 7237-7244.	1.7	53
63	Differential Effects of 4-Aminopyridine, Serotonin, and Phorbol Esters on Facilitation of Sensorimotor Connections in Aplysia. <i>Journal of Neurophysiology</i> , 1997, 77, 177-185.	0.9	28
64	Distinct Ca ²⁺ -dependent Properties of the First and Second C2-domains of Synaptotagmin I. <i>Journal of Biological Chemistry</i> , 1996, 271, 1262-1265.	1.6	132
65	Activators of protein kinase C mimic serotonin-induced modulation of a voltage-dependent potassium current in pleural sensory neurons of Aplysia. <i>Journal of Neurophysiology</i> , 1994, 72, 1240-1249.	0.9	39
66	cAMP-independent effects of 8-(4-parachlorophenylthio)-cyclic AMP on spike duration and membrane currents in pleural sensory neurons of Aplysia. <i>Journal of Neurophysiology</i> , 1994, 72, 1250-1259.	0.9	14
67	Involvement of protein kinase C in serotonin-induced spike broadening and synaptic facilitation in sensorimotor connections of Aplysia. <i>Journal of Neurophysiology</i> , 1992, 68, 643-651.	0.9	105
68	Duration discrimination of empty intervals in the rat. <i>Japanese Psychological Research</i> , 1986, 28, 176-185.	0.4	3