

# James A Mcnew

## List of Publications by Year in descending order

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58  
papers

8,878  
citations

81900

39  
h-index

138484

58  
g-index

68  
all docs

68  
docs citations

68  
times ranked

7762  
citing authors

#	ARTICLE	IF	CITATIONS
1	SNAREpins: Minimal Machinery for Membrane Fusion. <i>Cell</i> , 1998, 92, 759-772.	28.9	2,289
2	Compartmental specificity of cellular membrane fusion encoded in SNARE proteins. <i>Nature</i> , 2000, 407, 153-159.	27.8	629
3	Homotypic fusion of ER membranes requires the dynamin-like GTPase Atlastin. <i>Nature</i> , 2009, 460, 978-983.	27.8	419
4	SNARE Proteins Are Required for Macroautophagy. <i>Cell</i> , 2011, 146, 290-302.	28.9	418
5	An oligomeric protein is imported into peroxisomes in vivo.. <i>Journal of Cell Biology</i> , 1994, 127, 1245-1257.	5.2	333
6	Close Is Not Enough. <i>Journal of Cell Biology</i> , 2000, 150, 105-118.	5.2	285
7	Rapid and efficient fusion of phospholipid vesicles by the alpha -helical core of a SNARE complex in the absence of an N-terminal regulatory domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12565-12570.	7.1	249
8	Topological restriction of SNARE-dependent membrane fusion. <i>Nature</i> , 2000, 407, 194-198.	27.8	242
9	Hemifusion in SNARE-mediated membrane fusion. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 417-422.	8.2	226
10	Functional architecture of an intracellular membrane t-SNARE. <i>Nature</i> , 2000, 407, 198-202.	27.8	222
11	Ykt6p, a Prenylated SNARE Essential for Endoplasmic Reticulum-Golgi Transport. <i>Journal of Biological Chemistry</i> , 1997, 272, 17776-17783.	3.4	211
12	Hemifusion arrest by complexin is relieved by Ca <sup>2+</sup> -synaptotagmin I. <i>Nature Structural and Molecular Biology</i> , 2006, 13, 748-750.	8.2	203
13	Regulation of membrane fusion by the membrane-proximal coil of the t-SNARE during zippering of SNAREpins. <i>Journal of Cell Biology</i> , 2002, 158, 929-940.	5.2	194
14	Membrane-bound fatty acid desaturases are inserted co-translationally into the ER and contain different ER retrieval motifs at their carboxy termini. <i>Plant Journal</i> , 2004, 37, 156-173.	5.7	182
15	Distinct SNARE complexes mediating membrane fusion in Golgi transport based on combinatorial specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5424-5429.	7.1	181
16	Content mixing and membrane integrity during membrane fusion driven by pairing of isolated v-SNAREs and t-SNAREs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 12571-12576.	7.1	176
17	The sorting sequence of the peroxisomal integral membrane protein PMP47 is contained within a short hydrophilic loop.. <i>Journal of Cell Biology</i> , 1996, 133, 269-280.	5.2	166
18	The Length of the Flexible SNAREpin Juxtamembrane Region Is a Critical Determinant of SNARE-Dependent Fusion. <i>Molecular Cell</i> , 1999, 4, 415-421.	9.7	154

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19	The targeting and assembly of peroxisomal proteins: some old rules do not apply. <i>Trends in Biochemical Sciences</i> , 1996, 21, 54-58.	7.5	145
20	Membrane Fusion Induced by Neuronal SNAREs Transits through Hemifusion. <i>Journal of Biological Chemistry</i> , 2005, 280, 30538-30541.	3.4	114
21	Snarepins Are Functionally Resistant to Disruption by Nsf and Î±SNAP. <i>Journal of Cell Biology</i> , 2000, 149, 1063-1072.	5.2	113
22	Characterization of a Novel Yeast SNARE Protein Implicated in Golgi Retrograde Traffic. <i>Molecular Biology of the Cell</i> , 1997, 8, 2659-2676.	2.1	104
23	Lunapark stabilizes nascent three-way junctions in the endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 418-423.	7.1	101
24	Sec1p directly stimulates SNARE-mediated membrane fusion in vitro. <i>Journal of Cell Biology</i> , 2004, 167, 75-85.	5.2	99
25	GTP-Dependent Membrane Fusion. <i>Annual Review of Cell and Developmental Biology</i> , 2013, 29, 529-550.	9.4	90
26	The effects of ER morphology on synaptic structure and function in <i>Drosophila melanogaster</i> . <i>Journal of Cell Science</i> , 2016, 129, 1635-48.	2.0	85
27	An internal region of the peroxisomal membrane protein PMP47 is essential for sorting to peroxisomes. <i>Journal of Cell Biology</i> , 1994, 124, 915-925.	5.2	84
28	Membrane fusion by the GTPase atlastin requires a conserved C-terminal cytoplasmic tail and dimerization through the middle domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11133-11138.	7.1	73
29	An Inventory of Peroxisomal Proteins and Pathways in <i>Drosophila melanogaster</i> . <i>Traffic</i> , 2012, 13, 1378-1392.	2.7	68
30	A t-SNARE of the endocytic pathway must be activated for fusion. <i>Journal of Cell Biology</i> , 2001, 155, 961-968.	5.2	63
31	Gos1p, a <i>Saccharomyces cerevisiae</i> SNARE protein involved in Golgi transport. <i>FEBS Letters</i> , 1998, 435, 89-95.	2.8	60
32	Munc18a Scaffolds SNARE Assembly to Promote Membrane Fusion. <i>Molecular Biology of the Cell</i> , 2008, 19, 5422-5434.	2.1	60
33	Liposome Fusion Assay to Monitor Intracellular Membrane Fusion Machines. <i>Methods in Enzymology</i> , 2003, 372, 274-300.	1.0	59
34	In <i>Arabidopsis</i> , the spatial and dynamic organization of the endoplasmic reticulum and Golgi apparatus is influenced by the integrity of the C-terminal domain of RHD3, a non-essential GTPase. <i>Plant Journal</i> , 2012, 69, 957-966.	5.7	59
35	Syntaxin 3b is a t-SNARE specific for ribbon synapses of the retina. <i>Journal of Comparative Neurology</i> , 2008, 510, 550-559.	1.6	58
36	Balancing ER dynamics: shaping, bending, severing, and mending membranes. <i>Current Opinion in Cell Biology</i> , 2011, 23, 435-442.	5.4	55

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37	<i>In Vitro</i> Fusion Catalyzed by the Sporulation-Specific t-SNARE Light Chain Spo20p is Stimulated by Phosphatidic Acid. <i>Traffic</i> , 2007, 8, 1630-1643.	2.7	49
38	The Atlastin C-terminal Tail Is an Amphipathic Helix That Perturbs the Bilayer Structure during Endoplasmic Reticulum Homotypic Fusion. <i>Journal of Biological Chemistry</i> , 2015, 290, 4772-4783.	3.4	47
39	The synaptobrevin homologue Snc2p recruits the exocyst to secretory vesicles by binding to Sec6p. <i>Journal of Cell Biology</i> , 2013, 202, 509-526.	5.2	46
40	Regulation of SNARE-Mediated Membrane Fusion during Exocytosis. <i>Chemical Reviews</i> , 2008, 108, 1669-1686.	47.7	40
41	The targeting and assembly of peroxisomal proteins: some old rules do not apply. <i>Trends in Biochemical Sciences</i> , 1996, 21, 54-58.	7.5	38
42	Peroxisomes Are Required for Lipid Metabolism and Muscle Function in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2014, 9, e100213.	2.5	38
43	Negative Regulation of Syntaxin4/SNAP-23/VAMP2-Mediated Membrane Fusion by Munc18c <i>In Vitro</i> . <i>PLoS ONE</i> , 2008, 3, e4074.	2.5	37
44	Munc18b is an essential gene in mice whose expression is limiting for secretion by airway epithelial and mast cells. <i>Biochemical Journal</i> , 2012, 446, 383-394.	3.7	36
45	GTP-dependent packing of a three-helix bundle is required for atlastin-mediated fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16283-16288.	7.1	34
46	Putative fusogenic activity of NSF is restricted to a lipid mixture whose coalescence is also triggered by other factors. <i>EMBO Journal</i> , 2000, 19, 1272-1278.	7.8	32
47	Peroxisomal biogenesis is genetically and biochemically linked to carbohydrate metabolism in <i>Drosophila</i> and mouse. <i>PLoS Genetics</i> , 2017, 13, e1006825.	3.5	31
48	The Polybasic Juxtamembrane Region of Sso1p Is Required for SNARE Function <i>In Vivo</i> . <i>Eukaryotic Cell</i> , 2005, 4, 2017-2028.	3.4	29
49	Fusing a lasting relationship between ER tubules. <i>Trends in Cell Biology</i> , 2011, 21, 416-423.	7.9	26
50	Ca <sup>2+</sup> and N-Ethylmaleimide-sensitive Factor Differentially Regulate Disassembly of SNARE Complexes on Early Endosomes. <i>Journal of Biological Chemistry</i> , 2004, 279, 18270-18276.	3.4	25
51	The atlastin membrane anchor forms an intramembrane hairpin that does not span the phospholipid bilayer. <i>Journal of Biological Chemistry</i> , 2018, 293, 18514-18524.	3.4	25
52	Crystal structure of an orthomyxovirus matrix protein reveals mechanisms for self-polymerization and membrane association. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8550-8555.	7.1	20
53	A transition to degeneration triggered by oxidative stress in degenerative disorders. <i>Molecular Psychiatry</i> , 2021, 26, 736-746.	7.9	16
54	Binding interactions control SNARE specificity <i>in vivo</i> . <i>Journal of Cell Biology</i> , 2008, 183, 1089-1100.	5.2	15

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55	Beneficial effects of rapamycin in a <i>Drosophila</i> model for hereditary spastic paraplegia. <i>Journal of Cell Science</i> , 2017, 130, 453-465.	2.0	12
56	An intramolecular t-SNARE complex functions in vivo without the syntaxin NH2-terminal regulatory domain. <i>Journal of Cell Biology</i> , 2006, 172, 295-307.	5.2	8
57	Detergent-assisted Reconstitution of Recombinant <i>Drosophila</i> Atlastin into Liposomes for Lipid-mixing Assays. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	1
58	The Atlastin C-Terminal Tail is an Amphipathic Helix that Perturbs the Bilayer Structure during Endoplasmic Reticulum Homotypic Fusion. <i>Biophysical Journal</i> , 2016, 110, 227a.	0.5	0