James A Mcnew

List of Publications by Year
in descending order

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	A transition to degeneration triggered by oxidative stress in degenerative disorders. Molecular Psychiatry, 2021, 26, 736-746.	7.9	16
2	Detergent-assisted Reconstitution of Recombinant Drosophila Atlastin into Liposomes for Lipid-mixing Assays. Journal of Visualized Experiments, 2019, , .	0.3	1
3	The atlastin membrane anchor forms an intramembrane hairpin that does not span the phospholipid bilayer. Journal of Biological Chemistry, 2018, 293, 18514-18524.	3.4	25
4	Beneficial effects of rapamycin in a <i>Drosophila</i> model for hereditary spastic paraplegia. Journal of Cell Science, 2017, 130, 453-465.	2.0	12
5	Crystal structure of an orthomyxovirus matrix protein reveals mechanisms for self-polymerization and membrane association. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8550-8555.	7.1	20
6	Peroxisomal biogenesis is genetically and biochemically linked to carbohydrate metabolism in Drosophila and mouse. PLoS Genetics, 2017, 13, e1006825.	3.5	31
7	The Atlastin C-Terminal Tail is an Amphipathic Helix that Perturbs the Bilayer Structure during Endoplasmic Reticulum Homotypic Fusion. Biophysical Journal, 2016, 110, 227a.	0.5	0
8	The effects of ER morphology on synaptic structure and function in Drosophila melanogaster. Journal of Cell Science, 2016, 129, 1635-48.	2.0	85
9	Lunapark stabilizes nascent three-way junctions in the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 418-423.	7.1	101
10	The Atlastin C-terminal Tail Is an Amphipathic Helix That Perturbs the Bilayer Structure during Endoplasmic Reticulum Homotypic Fusion. Journal of Biological Chemistry, 2015, 290, 4772-4783.	3.4	47
11	Peroxisomes Are Required for Lipid Metabolism and Muscle Function in Drosophila melanogaster. PLoS ONE, 2014, 9, e100213.	2.5	38
12	GTP-Dependent Membrane Fusion. Annual Review of Cell and Developmental Biology, 2013, 29, 529-550.	9.4	90
13	The synaptobrevin homologue Snc2p recruits the exocyst to secretory vesicles by binding to Sec6p. Journal of Cell Biology, 2013, 202, 509-526.	5.2	46
14	Munc18b is an essential gene in mice whose expression is limiting for secretion by airway epithelial and mast cells. Biochemical Journal, 2012, 446, 383-394.	3.7	36
15	An Inventory of Peroxisomal Proteins and Pathways in <i>Drosophila melanogaster</i>. Traffic, 2012, 13, 1378-1392.	2.7	68
16	In Arabidopsis, the spatial and dynamic organization of the endoplasmic reticulum and Golgi apparatus is influenced by the integrity of the Câ€terminal domain of RHD3, a nonâ€essential GTPase. Plant Journal, 2012, 69, 957-966.	5.7	59
17	SNARE Proteins Are Required for Macroautophagy. Cell, 2011, 146, 290-302.	28.9	418
18	Fusing a lasting relationship between ER tubules. Trends in Cell Biology, 2011, 21, 416-423.	7.9	26

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19	Balancing ER dynamics: shaping, bending, severing, and mending membranes. Current Opinion in Cell Biology, 2011, 23, 435-442.	5.4	55
20	GTP-dependent packing of a three-helix bundle is required for atlastin-mediated fusion. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16283-16288.	7.1	34
21	Membrane fusion by the GTPase atlastin requires a conserved C-terminal cytoplasmic tail and dimerization through the middle domain. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11133-11138.	7.1	73
22	Homotypic fusion of ER membranes requires the dynamin-like GTPase Atlastin. Nature, 2009, 460, 978-983.	27.8	419
23	Syntaxin 3b is a tâ€SNARE specific for ribbon synapses of the retina. Journal of Comparative Neurology, 2008, 510, 550-559.	1.6	58
24	Regulation of SNARE-Mediated Membrane Fusion during Exocytosis. Chemical Reviews, 2008, 108, 1669-1686.	47.7	40
25	Binding interactions control SNARE specificity in vivo. Journal of Cell Biology, 2008, 183, 1089-1100.	5.2	15
26	Munc18a Scaffolds SNARE Assembly to Promote Membrane Fusion. Molecular Biology of the Cell, 2008, 19, 5422-5434.	2.1	60
27	Negative Regulation of Syntaxin4/SNAP-23/VAMP2-Mediated Membrane Fusion by Munc18c In Vitro. PLoS ONE, 2008, 3, e4074.	2.5	37
28	<i>In Vitro </i>Fusion Catalyzed by the Sporulationâ€Specific tâ€SNARE Lightâ€Chain Spo20p is Stimulated by Phosphatidic Acid. Traffic, 2007, 8, 1630-1643.	2.7	49
29	Hemifusion arrest by complexin is relieved by Ca2+â€"synaptotagmin I. Nature Structural and Molecular Biology, 2006, 13, 748-750.	8.2	203
30	An intramolecular t-SNARE complex functions in vivo without the syntaxin NH2-terminal regulatory domain. Journal of Cell Biology, 2006, 172, 295-307.	5.2	8
31	Hemifusion in SNARE-mediated membrane fusion. Nature Structural and Molecular Biology, 2005, 12, 417-422.	8.2	226
32	The Polybasic Juxtamembrane Region of Sso1p Is Required for SNARE Function In Vivo. Eukaryotic Cell, 2005, 4, 2017-2028.	3.4	29
33	Membrane Fusion Induced by Neuronal SNAREs Transits through Hemifusion. Journal of Biological Chemistry, 2005, 280, 30538-30541.	3.4	114
34	Sec1p directly stimulates SNARE-mediated membrane fusion in vitro. Journal of Cell Biology, 2004, 167, 75-85.	5.2	99
35	Ca2+ and N-Ethylmaleimide-sensitive Factor Differentially Regulate Disassembly of SNARE Complexes on Early Endosomes. Journal of Biological Chemistry, 2004, 279, 18270-18276.	3.4	25
36	Membrane-bound fatty acid desaturases are inserted co-translationally into the ER and contain different ER retrieval motifs at their carboxy termini. Plant Journal, 2004, 37, 156-173.	5.7	182

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37	Liposome Fusion Assay to Monitor Intracellular Membrane Fusion Machines. Methods in Enzymology, 2003, 372, 274-300.	1.0	59
38	Distinct SNARE complexes mediating membrane fusion in Golgi transport based on combinatorial specificity. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5424-5429.	7.1	181
39	Regulation of membrane fusion by the membrane-proximal coil of the t-SNARE during zippering of SNAREpins. Journal of Cell Biology, 2002, 158, 929-940.	5.2	194
40	A t-SNARE of the endocytic pathway must be activated for fusion. Journal of Cell Biology, 2001, 155, 961-968.	5.2	63
41	Compartmental specificity of cellular membrane fusion encoded in SNARE proteins. Nature, 2000, 407, 153-159.	27.8	629
42	Topological restriction of SNARE-dependent membrane fusion. Nature, 2000, 407, 194-198.	27.8	242
43	Functional architecture of an intracellular membrane t-SNARE. Nature, 2000, 407, 198-202.	27.8	222
44	Close Is Not Enough. Journal of Cell Biology, 2000, 150, 105-118.	5.2	285
45	Snarepins Are Functionally Resistant to Disruption by Nsf and Î±SNAP. Journal of Cell Biology, 2000, 149, 1063-1072.	5.2	113
46	Putative fusogenic activity of NSF is restricted to a lipid mixture whose coalescence is also triggered by other factors. EMBO Journal, 2000, 19, 1272-1278.	7.8	32
47	Content mixing and membrane integrity during membrane fusion driven by pairing of isolated v-SNAREs and t-SNAREs. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12571-12576.	7.1	176
48	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. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12565-12570.	7.1	249
49	The Length of the Flexible SNAREpin Juxtamembrane Region Is a Critical Determinant of SNARE-Dependent Fusion. Molecular Cell, 1999, 4, 415-421.	9.7	154
50	SNAREpins: Minimal Machinery for Membrane Fusion. Cell, 1998, 92, 759-772.	28.9	2,289
51	Gos1p, aSaccharomyces cerevisiaeSNARE protein involved in Golgi transport. FEBS Letters, 1998, 435, 89-95.	2.8	60
52	Ykt6p, a Prenylated SNARE Essential for Endoplasmic Reticulum-Golgi Transport. Journal of Biological Chemistry, 1997, 272, 17776-17783.	3.4	211
53	Characterization of a Novel Yeast SNARE Protein Implicated in Golgi Retrograde Traffic. Molecular Biology of the Cell, 1997, 8, 2659-2676.	2.1	104
54	The targeting and assembly of peroxisomal proteins: some old rules do not apply. Trends in Biochemical Sciences, 1996, 21, 54-58.	7.5	145

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55	The sorting sequence of the peroxisomal integral membrane protein PMP47 is contained within a short hydrophilic loop.. Journal of Cell Biology, 1996, 133, 269-280.	5.2	166
56	The targeting and assembly of peroxisomal proteins: some old rules do not apply. Trends in Biochemical Sciences, 1996, 21, 54-58.	7.5	38
57	An internal region of the peroxisomal membrane protein PMP47 is essential for sorting to peroxisomes. Journal of Cell Biology, 1994, 124, 915-925.	5.2	84
58	An oligomeric protein is imported into peroxisomes in vivo.. Journal of Cell Biology, 1994, 127, 1245-1257.	5.2	333