Nia Jane Bryant

List of Publications by Year
in descending order

51 papers	3,357 citations	236925 25 h-index	189892 50 g-index
53 all docs	53 docs citations	53 times ranked	3493 citing authors

#	Article	IF	Citations
1	Regulated transport of the glucose transporter GLUT4. Nature Reviews Molecular Cell Biology, 2002, 3, 267-277.	37.0	1,008
2	Vacuole Biogenesis in Saccharomyces cerevisiae : Protein Transport Pathways to the Yeast Vacuole. Microbiology and Molecular Biology Reviews, 1998, 62, 230-247.	6.6	255
3	GLUT4 Recycles via atrans-Golgi Network (TGN) Subdomain Enriched in Syntaxins 6 and 16 But Not TGN38: Involvement of an Acidic Targeting Motif. Molecular Biology of the Cell, 2003, 14, 973-986.	2.1	192
4	The Membrane Protein Alkaline Phosphatase Is Delivered to the Vacuole by a Route That Is Distinct from the VPS-dependent Pathway. Journal of Cell Biology, 1997, 138, 531-545.	5.2	149
5	Retrograde Traffic Out of the Yeast Vacuole to the TGN Occurs via the Prevacuolar/Endosomal Compartment. Journal of Cell Biology, 1998, 142, 651-663.	5.2	111
6	The t-SNARE Syntaxin 4 Is Regulated during Macrophage Activation to Function in Membrane Traffic and Cytokine Secretion. Current Biology, 2003, 13, 156-160.	3.9	109
7	Molecular Dissection of the Munc18c/Syntaxin4 Interaction: Implications for Regulation of Membrane Trafficking. Traffic, 2006, 7, 1408-1419.	2.7	106
8	VPS21Controls Entry of Endocytosed and Biosynthetic Proteins into the Yeast Prevacuolar Compartment. Molecular Biology of the Cell, 2000, 11, 613-626.	2.1	99
9	Two Separate Signals Act Independently to Localize a Yeast Late Golgi Membrane Protein through a Combination of Retrieval and Retention. Journal of Cell Biology, 1997, 136, 287-297.	5.2	97
10	The Sec1p/Munc18 protein Vps45p binds its cognate SNARE proteins via two distinct modes. Journal of Cell Biology, 2006, 173, 927-936.	5.2	96
11	Syntaxin 7 Complexes with Mouse Vps10p Tail Interactor 1b, Syntaxin 6, Vesicle-associated Membrane Protein (VAMP)8, and VAMP7 in B16 Melanoma Cells. Journal of Biological Chemistry, 2001, 276, 19820-19827.	3.4	79
12	Tomosyn Interacts with the t-SNAREs Syntaxin4 and SNAP23 and Plays a Role in Insulin-stimulated GLUT4 Translocation. Journal of Biological Chemistry, 2003, 278, 35093-35101.	3.4	79
13	The Thr224Asn mutation in the VPS45 gene is associated with the congenital neutropenia and primary myelofibrosis of infancy. Blood, 2013, 121, 5078-5087.	1.4	70
14	ArabidopsisSec1/Munc18 Protein SEC11 Is a Competitive and Dynamic Modulator of SNARE Binding and SYP121-Dependent Vesicle Traffic Â. Plant Cell, 2013, 25, 1368-1382.	6.6	66
15	Traffic into the prevacuolar/endosomal compartment of Saccharomyces cerevisiae: A VPS45-dependent intracellular route and a VPS45-independent, endocytic route. European Journal of Cell Biology, 1998, 76, 43-52.	3.6	60
16	Homotypic Vacuole Fusion in Yeast Requires Organelle Acidification and Not the V-ATPase Membrane Domain. Developmental Cell, 2013, 27, 462-468.	7.0	52
17	The N-terminal peptide of the syntaxin Tlg2p modulates binding of its closed conformation to Vps45p. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14303-14308.	7.1	50
18	SNARE Proteins Underpin Insulinâ€Regulated GLUT4 Traffic. Traffic, 2011, 12, 657-664.	2.7	49

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19	Syntaxin 16 controls the intracellular sequestration of GLUT4 in 3T3-L1 adipocytes. Biochemical and Biophysical Research Communications, 2006, 347, 433-438.	2.1	45
20	The Sec1p/Munc18 (SM) protein, Vps45p, cycles on and off membranes during vesicle transport. Journal of Cell Biology, 2003, 161, 691-696.	5.2	39
21	Insulin stimulated GLUT4 translocation â€“ Size is not everything!. Current Opinion in Cell Biology, 2020, 65, 28-34.	5.4	39
22	Insulin-Regulated Trafficking of GLUT4 Requires Ubiquitination. Traffic, 2010, 11, 1445-1454.	2.7	38
23	Negative Regulation of Syntaxin4/SNAP-23/VAMP2-Mediated Membrane Fusion by Munc18c In Vitro. PLoS ONE, 2008, 3, e4074.	2.5	37
24	Posttranslational Modifications of GLUT4 Affect Its Subcellular Localization and Translocation. International Journal of Molecular Sciences, 2013, 14, 9963-9978.	4.1	33
25	Insulin Stimulates Syntaxin4 SNARE Complex Assembly via a Novel Regulatory Mechanism. Molecular and Cellular Biology, 2014, 34, 1271-1279.	2.3	33
26	CHC22 clathrin mediates traffic from early secretory compartments for human GLUT4 pathway biogenesis. Journal of Cell Biology, 2020, 219, .	5.2	32
27	Building GLUT4 Vesicles: CHC22 Clathrinâ€™s Human Touch. Trends in Cell Biology, 2020, 30, 705-719.	7.9	28
28	Tyrosine phosphorylation of Munc18c on residue 521 abrogates binding to Syntaxin 4. BMC Biochemistry, 2011, 12, 19.	4.4	26
29	Alternate routes to the cell surface underpin insulin-regulated membrane trafficking of GLUT4. Journal of Cell Science, 2015, 128, 2423-9.	2.0	26
30	Functional homology of mammalian syntaxin 16 and yeast Tlg2p reveals a conserved regulatory mechanism. Journal of Cell Science, 2009, 122, 2292-2299.	2.0	25
31	Sorting of GLUT4 into its insulin-sensitive store requires the Sec1/Munc18 protein mVps45. Molecular Biology of the Cell, 2013, 24, 2389-2397.	2.1	25
32	Characterization of two distinct binding modes between syntaxin 4 and Munc18c. Biochemical Journal, 2009, 419, 655-660.	3.7	23
33	Characterization of VAMP isoforms in 3T3-L1 adipocytes: implications for GLUT4 trafficking. Molecular Biology of the Cell, 2015, 26, 530-536.	2.1	22
34	A role for the syntaxin N-terminus. Biochemical Journal, 2009, 418, e1-e3.	3.7	17
35	Autoinhibition of SNARE complex assembly by a conformational switch represents a conserved feature of syntaxins. Biochemical Society Transactions, 2010, 38, 209-212.	3.4	17
36	The deubiquitinating enzyme USP25 binds tankyrase and regulates trafficking of the facilitative glucose transporter GLUT4 in adipocytes. Scientific Reports, 2019, 9, 4710.	3.3	16

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37	Characterisation of GLUT4 trafficking in HeLa cells: comparable kinetics and orthologous trafficking mechanisms to 3T3-L1 adipocytes. PeerJ, 2020, 8, e8751.	2.0	16
38	The Sec1/Munc18 Protein Vps45 Regulates Cellular Levels of Its SNARE Binding Partners Tlg2 and Snc2 in Saccharomyces cerevisiae. PLoS ONE, 2012, 7, e49628.	2.5	13
39	SNARE phosphorylation: a control mechanism for insulin-stimulated glucose transport and other regulated exocytic events. Biochemical Society Transactions, 2017, 45, 1271-1277.	3.4	13
40	Endosomal sorting of GLUT4 and Gap1 is conserved between yeast and insulin-sensitive cells. Journal of Cell Science, 2013, 126, 1576-82.	2.0	11
41	Localization of a protein a-tagged kex2 protein to the vacuole ofSaccharomyces cerevisiae allows rapid purification of vacuolar membranes. Yeast, 1995, 11, 201-210.	1.7	9
42	Recombinant expression of Munc18c in a baculovirus system and interaction with syntaxin4. Protein Expression and Purification, 2003, 31, 305-310.	1.3	7
43	Cellular levels of the syntaxin Tlg2p are regulated by a single mode of binding to Vps45p. Biochemical and Biophysical Research Communications, 2007, 363, 857-860.	2.1	7
44	Studies of the regulated assembly of SNARE complexes in adipocytes. Biochemical Society Transactions, 2014, 42, 1396-1400.	3.4	7
45	Complete Membrane Fractionation of 3T3-L1 Adipocytes. Cold Spring Harbor Protocols, 2016, 2016, pdb.prot083691.	0.3	6
46	Knockout of syntaxin-4 in 3T3-L1 adipocytes reveals new insight into GLUT4 trafficking and adiponectin secretion. Journal of Cell Science, 2022, 135, .	2.0	6
47	Large scale, single-cell FRET-based glucose uptake measurements within heterogeneous populations. IScience, 2022, 25, 104023.	4.1	5
48	mVps45 knockdown selectively modulates VAMP expression in 3T3-L1 adipocytes. Communicative and Integrative Biology, 2015, 8, e1026494.	1.4	3
49	16K Fractionation of 3T3-L1 Adipocytes to Produce a Crude GLUT4-Containing Vesicle Fraction. Cold Spring Harbor Protocols, 2016, 2016, pdb.prot083683.	0.3	3
50	Proximity Ligation Assay to Study the GLUT4 Membrane Trafficking Machinery. Methods in Molecular Biology, 2018, 1713, 217-227.	0.9	2
51	Vps45pâ€"a paradigm for Sec1p/Munc18 protein function. FASEB Journal, 2009, 23, 683.5.	0.5	0