Frances M Brodsky

List of Publications by Year
in descending order

50 papers	3,060 citations	236925 25 h-index	197818 49 g-index
58 all docs	58 docs citations	58 times ranked	3176 citing authors

#	Article	IF	Citations
1	Biological Basket Weaving: Formation and Function of Clathrin-Coated Vesicles. Annual Review of Cell and Developmental Biology, 2001, 17, 517-568.	9.4	573
2	Lipid Rafts Unite Signaling Cascades with Clathrin to Regulate BCR Internalization. Immunity, 2002, 17, 451-462.	14.3	200
3	A costâ€“benefit analysis of the physical mechanisms of membrane curvature. Nature Cell Biology, 2013, 15, 1019-1027.	10.3	194
4	Diversity of Clathrin Function: New Tricks for an Old Protein. Annual Review of Cell and Developmental Biology, 2012, 28, 309-336.	9.4	181
5	Folding and trimerization of clathrin subunits at the triskelion hub. Cell, 1992, 68, 899-910.	28.9	152
6	Regulation of clathrin assembly and trimerization defined using recombinant triskelion hubs. Cell, 1995, 83, 257-267.	28.9	151
7	Clathrin self-assembly is mediated by a tandemly repeated superhelix. Nature, 1999, 399, 371-375.	27.8	143
8	Huntingtin-interacting Protein 1 (Hip1) and Hip1-related Protein (Hip1R) Bind the Conserved Sequence of Clathrin Light Chains and Thereby Influence Clathrin Assembly in Vitro and Actin Distribution in Vivo. Journal of Biological Chemistry, 2005, 280, 6109-6117.	3.4	112
9	Clathrin phosphorylation is required for actin recruitment at sites of bacterial adhesion and internalization. Journal of Cell Biology, 2011, 195, 525-536.	5.2	99
10	A Role for the CHC22 Clathrin Heavy-Chain Isoform in Human Glucose Metabolism. Science, 2009, 324, 1192-1196.	12.6	98
11	Clathrin light chains: arrays of protein motifs that regulate coated-vesicle dynamics. Trends in Biochemical Sciences, 1991, 16, 208-213.	7.5	87
12	Actin Binding by Hip1 (Huntingtin-interacting Protein 1) and Hip1R (Hip1-related Protein) Is Regulated by Clathrin Light Chain. Journal of Biological Chemistry, 2008, 283, 32870-32879.	3.4	78
13	Human pathogen subversion of antigen presentation. Immunological Reviews, 1999, 168, 199-215.	6.0	73
14	Conformation Switching of Clathrin Light Chain Regulates Clathrin Lattice Assembly. Developmental Cell, 2010, 18, 854-861.	7.0	72
15	Clathrin heavy and light chain isoforms originated by independent mechanisms of gene duplication during chordate evolution. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7209-7214.	7.1	58
16	The clathrin heavy chain isoform CHC22 functions in a novel endosomal sorting step. Journal of Cell Biology, 2010, 188, 131-144.	5.2	56
17	Clathrin promotes centrosome integrity in early mitosis through stabilization of centrosomal ch-TOG. Journal of Cell Biology, 2012, 198, 591-605.	5.2	53
18	Clathrin Isoform CHC22, a Component of Neuromuscular and Myotendinous Junctions, Binds Sorting Nexin 5 and Has Increased Expression during Myogenesis and Muscle Regeneration. Molecular Biology of the Cell, 2004, 15, 3181-3195.	2.1	49

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19	Complete Reconstitution of Clathrin Basket Formation with Recombinant Protein Fragments: Adaptor Control of Clathrin Self-Assembly. Traffic, 2000, 1, 69-75.	2.7	44
20	Clathrin light chains are required for the gyrating-clathrin recycling pathway and thereby promote cell migration. Nature Communications, 2014, 5, 3891.	12.8	44
21	New Faces of the Familiar Clathrin Lattice. Traffic, 2005, 6, 346-350.	2.7	40
22	Clathrin light chain A drives selective myosin VI recruitment to clathrin-coated pits under membrane tension. Nature Communications, 2019, 10, 4974.	12.8	38
23	Novel Binding Sites on Clathrin and Adaptors Regulate Distinct Aspects of Coat Assembly. Traffic, 2006, 7, 1688-1700.	2.7	35
24	Lipid Metabolism Links Nutrient-Exercise Timing to Insulin Sensitivity in Men Classified as Overweight or Obese. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 660-676.	3.6	32
25	CHC22 clathrin mediates traffic from early secretory compartments for human GLUT4 pathway biogenesis. Journal of Cell Biology, 2020, 219, .	5.2	32
26	A Common Clathrinâ€Mediated Machinery Coâ€ordinates Cellâ€“Cell Adhesion and Bacterial Internalization. Traffic, 2012, 13, 1653-1666.	2.7	30
27	Building GLUT4 Vesicles: CHC22 Clathrinâ€™s Human Touch. Trends in Cell Biology, 2020, 30, 705-719.	7.9	28
28	Clathrin light chainsâ€™ role in selective endocytosis influences antibody isotype switching. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9816-9821.	7.1	27
29	Clathrin light chain diversity regulates membrane deformation in vitro and synaptic vesicle formation in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23527-23538.	7.1	27
30	Clathrinâ€™s life beyond 40: Connecting biochemistry with physiology and disease. Current Opinion in Cell Biology, 2020, 65, 141-149.	5.4	25
31	Hsc70â€induced Changes in Clathrinâ€Auxilin Cage Structure Suggest a Role for Clathrin Light Chains in Cage Disassembly. Traffic, 2013, 14, 987-996.	2.7	24
32	CHC22 and CHC17 clathrins have distinct biochemical properties and display differential regulation and function. Journal of Biological Chemistry, 2017, 292, 20834-20844.	3.4	24
33	Unconventional Functions for Clathrin, ESCRTs, and Other Endocytic Regulators in the Cytoskeleton, Cell Cycle, Nucleus, and Beyond: Links to Human Disease. Cold Spring Harbor Perspectives in Biology, 2014, 6, a017004-a017004.	5.5	22
34	Clathrin Hub Expression Dissociates the Actin-Binding Protein Hip1R from Coated Pits and Disrupts Their Alignment with the Actin Cytoskeleton. Traffic, 2001, 2, 851-858.	2.7	22
35	Genetic diversity of CHC22 clathrin impacts its function in glucose metabolism. ELife, 2019, 8, .	6.0	22
36	The CHC22 Clathrin-GLUT4 Transport Pathway Contributes to Skeletal Muscle Regeneration. PLoS ONE, 2013, 8, e77787.	2.5	19

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37	The adaptor protein GULP promotes Jedi-1â€“mediated phagocytosis through a clathrin-dependent mechanism. Molecular Biology of the Cell, 2014, 25, 1925-1936.	2.1	18
38	The AP2 adaptor enhances clathrin coat stiffness. FEBS Journal, 2019, 286, 4074-4085.	4.7	16
39	Molecular Structures of Proteins Involved in Vesicle Fusion. Traffic, 2000, 1, 474-479.	2.7	15
40	Trafficking regulator of GLUT4-1 (TRARG1) is a GSK3 substrate. Biochemical Journal, 2022, 479, 1237-1256.	3.7	11
41	Antagonistic regulation controls clathrin-mediated endocytosis: AP2 adaptor facilitation vs restraint from clathrin light chains. Cells and Development, 2021, 168, 203714.	1.5	9
42	A Distinctive Cytoplasmic Tail Contributes to Low Surface Expression and Intracellular Retention of the Patr-AL MHC Class I Molecule. Journal of Immunology, 2015, 195, 3725-3736.	0.8	7
43	Life History of the Journal TRAFFIC, Celebrating Ten Years of Publication. Traffic, 2010, 11, 1-3.	2.7	4
44	What's the score?. Nature, 1991, 352, 288-289.	27.8	2
45	Thomas E. Kreis, 1952â€“1998. Trends in Cell Biology, 1998, 8, 476.	7.9	2
46	Green Light for Traffic. Traffic, 2000, 1, 1-2.	2.7	2
47	Twenty years of Traffic. Traffic, 2020, 21, 4-5.	2.7	2
48	Looking back to traffic forward: A tribute to Thomas Kreis (1952â€1998) and his inspiration. Traffic, 2020, 21, 186-188.	2.7	0
49	Editorial overview: Membrane traffic in the time of COVID-19. Current Opinion in Cell Biology, 2020, 65, iii-v.	5.4	0
50	Ernst Joachim Ungewickell: 1950â€“2020. Journal of Cell Biology, 2020, 219, .	5.2	0