

# Frances M Brodsky

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

3,060  
citations

236833

25  
h-index

197736

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. <i>Annual Review of Cell and Developmental Biology</i> , 2001, 17, 517-568.  | 4.0  | 573       |
| 2  | Lipid Rafts Unite Signaling Cascades with Clathrin to Regulate BCR Internalization. <i>Immunity</i> , 2002, 17, 451-462.  | 6.6  | 200       |
| 3  | A cost-benefit analysis of the physical mechanisms of membrane curvature. <i>Nature Cell Biology</i> , 2013, 15, 1019-1027.   | 4.6  | 194       |
| 4  | Diversity of Clathrin Function: New Tricks for an Old Protein. <i>Annual Review of Cell and Developmental Biology</i> , 2012, 28, 309-336.  | 4.0  | 181       |
| 5  | Folding and trimerization of clathrin subunits at the triskelion hub. <i>Cell</i> , 1992, 68, 899-910.  | 13.5 | 152       |
| 6  | Regulation of clathrin assembly and trimerization defined using recombinant triskelion hubs. <i>Cell</i> , 1995, 83, 257-267.   | 13.5 | 151       |
| 7  | Clathrin self-assembly is mediated by a tandemly repeated superhelix. <i>Nature</i> , 1999, 399, 371-375.   | 13.7 | 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. <i>Journal of Biological Chemistry</i> , 2005, 280, 6109-6117. | 1.6  | 112       |
| 9  | Clathrin phosphorylation is required for actin recruitment at sites of bacterial adhesion and internalization. <i>Journal of Cell Biology</i> , 2011, 195, 525-536.   | 2.3  | 99        |
| 10 | A Role for the CHC22 Clathrin Heavy-Chain Isoform in Human Glucose Metabolism. <i>Science</i> , 2009, 324, 1192-1196.   | 6.0  | 98        |
| 11 | Clathrin light chains: arrays of protein motifs that regulate coated-vesicle dynamics. <i>Trends in Biochemical Sciences</i> , 1991, 16, 208-213.   | 3.7  | 87        |
| 12 | Actin Binding by Hip1 (Huntingtin-interacting Protein 1) and Hip1R (Hip1-related Protein) Is Regulated by Clathrin Light Chain. <i>Journal of Biological Chemistry</i> , 2008, 283, 32870-32879.  | 1.6  | 78        |
| 13 | Human pathogen subversion of antigen presentation. <i>Immunological Reviews</i> , 1999, 168, 199-215.   | 2.8  | 73        |
| 14 | Conformation Switching of Clathrin Light Chain Regulates Clathrin Lattice Assembly. <i>Developmental Cell</i> , 2010, 18, 854-861.  | 3.1  | 72        |
| 15 | Clathrin heavy and light chain isoforms originated by independent mechanisms of gene duplication during chordate evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7209-7214.                                    | 3.3  | 58        |
| 16 | The clathrin heavy chain isoform CHC22 functions in a novel endosomal sorting step. <i>Journal of Cell Biology</i> , 2010, 188, 131-144.  | 2.3  | 56        |
| 17 | Clathrin promotes centrosome integrity in early mitosis through stabilization of centrosomal ch-TOG. <i>Journal of Cell Biology</i> , 2012, 198, 591-605.   | 2.3  | 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. <i>Molecular Biology of the Cell</i> , 2004, 15, 3181-3195.                                    | 0.9  | 49        |

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|----|---|-----|-----------|
| 19 | Complete Reconstitution of Clathrin Basket Formation with Recombinant Protein Fragments: Adaptor Control of Clathrin Self-Assembly. <i>Traffic</i> , 2000, 1, 69-75.  | 1.3 | 44        |
| 20 | Clathrin light chains are required for the gyrating-clathrin recycling pathway and thereby promote cell migration. <i>Nature Communications</i> , 2014, 5, 3891.  | 5.8 | 44        |
| 21 | New Faces of the Familiar Clathrin Lattice. <i>Traffic</i> , 2005, 6, 346-350.  | 1.3 | 40        |
| 22 | Clathrin light chain A drives selective myosin VI recruitment to clathrin-coated pits under membrane tension. <i>Nature Communications</i> , 2019, 10, 4974.  | 5.8 | 38        |
| 23 | Novel Binding Sites on Clathrin and Adaptors Regulate Distinct Aspects of Coat Assembly. <i>Traffic</i> , 2006, 7, 1688-1700.   | 1.3 | 35        |
| 24 | Lipid Metabolism Links Nutrient-Exercise Timing to Insulin Sensitivity in Men Classified as Overweight or Obese. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, 660-676.  | 1.8 | 32        |
| 25 | CHC22 clathrin mediates traffic from early secretory compartments for human GLUT4 pathway biogenesis. <i>Journal of Cell Biology</i> , 2020, 219, .   | 2.3 | 32        |
| 26 | A Common Clathrin-Mediated Machinery Coordinates Cell-Cell Adhesion and Bacterial Internalization. <i>Traffic</i> , 2012, 13, 1653-1666.  | 1.3 | 30        |
| 27 | Building GLUT4 Vesicles: CHC22 Clathrin's Human Touch. <i>Trends in Cell Biology</i> , 2020, 30, 705-719.   | 3.6 | 28        |
| 28 | Clathrin light chains' role in selective endocytosis influences antibody isotype switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9816-9821.                                | 3.3 | 27        |
| 29 | Clathrin light chain diversity regulates membrane deformation in vitro and synaptic vesicle formation in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23527-23538.           | 3.3 | 27        |
| 30 | Clathrin's life beyond 40: Connecting biochemistry with physiology and disease. <i>Current Opinion in Cell Biology</i> , 2020, 65, 141-149.   | 2.6 | 25        |
| 31 | Hsc70-induced Changes in Clathrin-Auxilin Cage Structure Suggest a Role for Clathrin Light Chains in Cage Disassembly. <i>Traffic</i> , 2013, 14, 987-996.  | 1.3 | 24        |
| 32 | CHC22 and CHC17 clathrins have distinct biochemical properties and display differential regulation and function. <i>Journal of Biological Chemistry</i> , 2017, 292, 20834-20844.   | 1.6 | 24        |
| 33 | Unconventional Functions for Clathrin, ESCRTs, and Other Endocytic Regulators in the Cytoskeleton, Cell Cycle, Nucleus, and Beyond: Links to Human Disease. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a017004-a017004. | 2.3 | 22        |
| 34 | Clathrin Hub Expression Dissociates the Actin-Binding Protein Hip1R from Coated Pits and Disrupts Their Alignment with the Actin Cytoskeleton. <i>Traffic</i> , 2001, 2, 851-858.   | 1.3 | 22        |
| 35 | Genetic diversity of CHC22 clathrin impacts its function in glucose metabolism. <i>ELife</i> , 2019, 8, .   | 2.8 | 22        |
| 36 | The CHC22 Clathrin-GLUT4 Transport Pathway Contributes to Skeletal Muscle Regeneration. <i>PLoS ONE</i> , 2013, 8, e77787.  | 1.1 | 19        |

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|----|--|------|-----------|
| 37 | The adaptor protein GULP promotes Jedi-1-mediated phagocytosis through a clathrin-dependent mechanism. <i>Molecular Biology of the Cell</i> , 2014, 25, 1925-1936.                         | 0.9  | 18        |
| 38 | The AP2 adaptor enhances clathrin coat stiffness. <i>FEBS Journal</i> , 2019, 286, 4074-4085.  | 2.2  | 16        |
| 39 | Molecular Structures of Proteins Involved in Vesicle Fusion. <i>Traffic</i> , 2000, 1, 474-479.  | 1.3  | 15        |
| 40 | Trafficking regulator of GLUT4-1 (TRARG1) is a GSK3 substrate. <i>Biochemical Journal</i> , 2022, 479, 1237-1256.  | 1.7  | 11        |
| 41 | Antagonistic regulation controls clathrin-mediated endocytosis: AP2 adaptor facilitation vs restraint from clathrin light chains. <i>Cells and Development</i> , 2021, 168, 203714.        | 0.7  | 9         |
| 42 | A Distinctive Cytoplasmic Tail Contributes to Low Surface Expression and Intracellular Retention of the Patr-AL MHC Class I Molecule. <i>Journal of Immunology</i> , 2015, 195, 3725-3736. | 0.4  | 7         |
| 43 | Life History of the Journal TRAFFIC, Celebrating Ten Years of Publication. <i>Traffic</i> , 2010, 11, 1-3.   | 1.3  | 4         |
| 44 | What's the score?. <i>Nature</i> , 1991, 352, 288-289.   | 13.7 | 2         |
| 45 | Thomas E. Kreis, 1952-1998. <i>Trends in Cell Biology</i> , 1998, 8, 476.  | 3.6  | 2         |
| 46 | Green Light for Traffic. <i>Traffic</i> , 2000, 1, 1-2.  | 1.3  | 2         |
| 47 | Twenty years of <i>Traffic</i> . <i>Traffic</i> , 2020, 21, 4-5.   | 1.3  | 2         |
| 48 | Looking back to traffic forward: A tribute to Thomas Kreis (1952-1998) and his inspiration. <i>Traffic</i> , 2020, 21, 186-188.  | 1.3  | 0         |
| 49 | Editorial overview: Membrane traffic in the time of COVID-19. <i>Current Opinion in Cell Biology</i> , 2020, 65, iii-v.  | 2.6  | 0         |
| 50 | Ernst Joachim Ungewickell: 1950-2020. <i>Journal of Cell Biology</i> , 2020, 219, .  | 2.3  | 0         |