Adams, A. E. and Pringle, J. R. (1984) 'Relationship of actin and tubulin distribution to bud growth in wild-type and morphogenetic-mutant Saccharomyces cerevisiae.', *The Journal of cell biology*. Rockefeller University Press, 98(3), pp. 934–45. doi: 10.1083/JCB.98.3.934.

Aghamohammadazadeh, S. and Ayscough, K. R. (2009) 'Under Pressure: the Differential Requirements for Actin during Yeast and Mammalian Endocytosis', *Nature cell biology*, 11(8), pp. 1039–1042. doi: 10.1038/ncb1918.

Anderson, B. L., Boldogh, I., Evangelista, M., Boone, C., Greene, L. A. and Pon, L. A. (1998) 'The Src homology domain 3 (SH3) of a yeast type I myosin, Myo5p, binds to verprolin and is required for targeting to sites of actin polarization.', *The Journal of cell biology*, 141(6), pp. 1357–70. doi: 10.1083/jcb.141.6.1357.

Anderson, R. G., Goldstein, J. L. and Brown, M. S. (1976) 'Localization of low density lipoprotein receptors on plasma membrane of normal human fibroblasts and their absence in cells from a familial hypercholesterolemia homozygote.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 73(7), pp. 2434–8. Available at: http://www.ncbi.nlm.nih.gov/pubmed/181751 (Accessed: 8 June 2018).

Antonny, B., Burd, C., De Camilli, P., Chen, E., Daumke, O., Faelber, K., Ford, M., Frolov, V. A., Frost, A., Hinshaw, J. E., Kirchhausen, T., Kozlov, M. M., Lenz, M., Low, H. H., McMahon, H., Merrifield, C., Pollard, T. D., Robinson, P. J., Roux, A. and

Schmid, S. (2016) 'Membrane fission by dynamin: what we know and what we need to know', *The EMBO Journal*, 35(21), pp. 2270–2284. doi: 10.15252/embj.201694613.

Arkhipov, A., Yin, Y. and Schulten, K. (2009) 'Membrane-Bending Mechanism of Amphiphysin N-BAR Domains', *Biophysical Journal*. Cell Press, 97(10), pp. 2727–2735. doi: 10.1016/J.BPJ.2009.08.051.

Basu, R., Munteanu, E. L. and Chang, F. (2014) 'Role of turgor pressure in endocytosis in fission yeast', *Molecular Biology of the Cell*, 25(5), pp. 679–687. doi: 10.1091/mbc.E13-10-0618.

Bauer, F., Urdaci, M., Aigle, M. and Crouzet, M. (1993) 'Alteration of a yeast SH3 protein leads to conditional viability with defects in cytoskeletal and budding patterns.', *Molecular and Cellular Biology*, 13(8), pp. 5070–5084. Available at: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC360159/ (Accessed: 4 August 2015).

Bazinet, C., Katzen, A. L., Morgan, M., Mahowald, A. P. and Lemmon, S. K. (1993) 'The Drosophila clathrin heavy chain gene: clathrin function is essential in a multicellular organism.', *Genetics*, 134(4), pp. 1119–34. Available at: http://www.ncbi.nlm.nih.gov/pubmed/8375651 (Accessed: 2 June 2018).

Bensen, E. S., Costaguta, G. and Payne, G. S. (2000) 'Synthetic genetic interactions with temperature-sensitive clathrin in Saccharomyces cerevisiae. Roles for synaptojanin-like Inp53p and dynamin-related Vps1p in clathrin-dependent protein sorting at the trans-Golgi network.', *Genetics*, 154(1), pp. 83–97. Available at: http://www.ncbi.nlm.nih.gov/pubmed/10628971 (Accessed: 9 August 2018).

Bitsikas, V., Corrêa, I. R. and Nichols, B. J. (2014) 'Clathrin-independent pathways do not contribute significantly to endocytic flux', *eLife*. eLife Sciences Publications Limited, 3, p. e03970. doi: 10.7554/eLife.03970.

van der Bliek, A. M. and Meyerowrtz, E. M. (1991) 'Dynamin-like protein encoded by the Drosophila shibire gene associated with vesicular traffic', *Nature*,

351(6325), pp. 411-414. doi: 10.1038/351411a0.

Boeke, D., Trautmann, S., Meurer, M., Wachsmuth, M., Godlee, C., Knop, M. and Kaksonen, M. (2014a) 'Quantification of cytosolic interactions identifies Ede1 oligomers as key organizers of endocytosis', *Molecular Systems Biology*, 10(11), pp. 756–756. doi: 10.15252/msb.20145422.

Boettner, D. R., Chi, R. J. and Lemmon, S. K. (2012) 'Lessons from yeast for clathrin-mediated endocytosis', *Nature Cell Biology*, 14(1), pp. 2–10. doi: 10.1038/ncb2403.

Boucrot, E., Pick, A., Çamdere, G., Liska, N., Evergren, E., McMahon, H. T. and Kozlov, M. M. (2012) 'Membrane Fission Is Promoted by Insertion of Amphipathic Helices and Is Restricted by Crescent BAR Domains', *Cell*. Cell Press, 149(1), p. 124–136s. doi: 10.1016/J.CELL.2012.01.047.

Brach, T., Godlee, C., Moeller-Hansen, I., Boeke, D. and Kaksonen, M. (2014) 'The Initiation of Clathrin-Mediated Endocytosis Is Mechanistically Highly Flexible', *Current Biology*. Cell Press, 24(5), pp. 548–554. doi: 10.1016/J.CUB.2014.01.048.

Brizzio, V., Gammie, A. E. and Rose, M. D. (1998) 'Rvs161p interacts with Fus2p to promote cell fusion in Saccharomyces cerevisiae.', *The Journal of cell biology*, 141(3), pp. 567–84. doi: 10.1083/jcb.141.3.567.

Bui, H. T., Karren, M. A., Bhar, D. and Shaw, J. M. (2012) 'A novel motif in the yeast mitochondrial dynamin Dnm1 is essential for adaptor binding and membrane recruitment.', *The Journal of cell biology*. Rockefeller University Press, 199(4), pp. 613–22. doi: 10.1083/jcb.201207079.

Cerveny, K. L., Tamura, Y., Zhang, Z., Jensen, R. E. and Sesaki, H. (2007) 'Regulation of mitochondrial fusion and division', *Trends in Cell Biology*. Elsevier Current Trends, 17(11), pp. 563–569. doi: 10.1016/J.TCB.2007.08.006.

Cestra, G., Castagnoli, L., Dente, L., Minenkova, O., Petrelli, A., Migone, N., Hoffmüller, U., Schneider-Mergener, J. and Cesareni, G. (1999) 'The SH3 domains

of endophilin and amphiphysin bind to the proline-rich region of synaptojanin 1 at distinct sites that display an unconventional binding specificity.', *The Journal of biological chemistry*. American Society for Biochemistry and Molecular Biology, 274(45), pp. 32001–7. doi: 10.1074/JBC.274.45.32001.

Chen, M. S., Obar, R. A., Schroeder, C. C., Austin, T. W., Poodry, C. A., Wadsworth, S. C. and Vallee, R. B. (1991) 'Multiple forms of dynamin are encoded by shibire, a Drosophila gene involved in endocytosis', *Nature*. Nature Publishing Group, 351(6327), pp. 583–586. doi: 10.1038/351583a0.

Colwill, K., Field, D., Moore, L., Friesen, J. and Andrews, B. (1999) 'In Vivo Analysis of the Domains of Yeast Rvs167p Suggests Rvs167p Function Is Mediated Through Multiple Protein Interactions', *Genetics*, 152(3).

Crouzet, M., Urdaci, M., Dulau, L. and Aigle, M. (1991) 'Yeast mutant affected for viability upon nutrient starvation: characterization and cloning of the RVS161 gene.', *Yeast (Chichester, England)*, 7(7), pp. 727–43. doi: 10.1002/yea.320070708.

David, C., McPherson, P. S., Mundigl, O. and de Camilli, P. (1996) 'A role of amphiphysin in synaptic vesicle endocytosis suggested by its binding to dynamin in nerve terminals.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 93(1), pp. 331–5. doi: 10.1073/PNAS.93.1.331.

Dmitrieff, S. and Nédélec, F. (2015) 'Membrane Mechanics of Endocytosis in Cells with Turgor', *PLOS Computational Biology*. Edited by H. Ewers. Public Library of Science, 11(10), p. e1004538. doi: 10.1371/journal.pcbi.1004538.

Fan, J. Y., Carpentier, J. L., Gorden, P., Van Obberghen, E., Blackett, N. M., Grunfeld, C. and Orci, L. (1982) 'Receptor-mediated endocytosis of insulin: role of microvilli, coated pits, and coated vesicles.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 79(24), pp. 7788–91. Available at: http://www.ncbi.nlm.nih.gov/pubmed/6818548 (Accessed: 8 June 2018).

Farsad, K., Ringstad, N., Takei, K., Floyd, S. R., Rose, K. and De Camilli, P. (2001) 'Generation of high curvature membranes mediated by direct endophilin bilayer interactions', *The Journal of Cell Biology*, 155(2), pp. 193–200. doi: 10.1083/jcb.200107075.

Ferguson, S. M., Ferguson, S., Raimondi, A., Paradise, S., Shen, H., Mesaki, K., Ferguson, A., Destaing, O., Ko, G., Takasaki, J., Cremona, O., O' Toole, E. and De Camilli, P. (2009) 'Coordinated actions of actin and BAR proteins upstream of dynamin at endocytic clathrin-coated pits', *Developmental Cell*, 17(6), pp. 811–822. doi: 10.1016/j.devcel.2009.11.005.

Friend, D. S. and Farquhar, M. G. (1967) 'Functions of coated vesicles during protein absorption in the rat vas deferens.', *The Journal of cell biology*. Rockefeller University Press, 35(2), pp. 357–76. doi: 10.1083/JCB.35.2.357.

Friesen, H., Humphries, C., Ho, Y., Schub, O., Colwill, K. and Andrews, B. (2006) 'Characterization of the Yeast Amphiphysins Rvs161p and Rvs167p Reveals Roles for the Rvs Heterodimer In Vivo', *Molecular Biology of the Cell*, 17(3), pp. 1306–1321. doi: 10.1091/mbc.E05-06-0476.

Frost, A., Perera, R., Roux, A., Spasov, K., Destaing, O., Egelman, E. H., De Camilli, P. and Unger, V. M. (2008) 'Structural basis of membrane invagination by F-BAR domains', *Cell*, 132(5), pp. 807–817. doi: 10.1016/j.cell.2007.12.041.

Gallop, J. L., Butler, P. J. G. and McMahon, H. T. (2005) 'Endophilin and CtBP/BARS are not acyl transferases in endocytosis or Golgi fission', *Nature*. Nature Publishing Group, 438(7068), pp. 675–678. doi: 10.1038/nature04136.

Geli, M. I., Lombardi, R., Schmelzl, B. and Riezman, H. (2000) 'An intact SH3 domain is required for myosin I-induced actin polymerization', *The EMBO Journal*, 19(16), pp. 4281–4291. doi: 10.1093/emboj/19.16.4281.

Giachino, C., Lantelme, E., Lanzetti, L., Saccone, S., Valle, G. Della and Migone, N. (1997) 'A Novel SH3-Containing Human Gene Family Preferentially Expressed in the Central Nervous System', *Genomics*. Academic Press, 41(3), pp. 427–434. doi:

10.1006/GENO.1997.4645.

Goldstein, J. L. and Brown, M. S. (1973) 'Familial hypercholesterolemia: identification of a defect in the regulation of 3-hydroxy-3-methylglutaryl coenzyme A reductase activity associated with overproduction of cholesterol.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 70(10), pp. 2804–8. Available at: http://www.ncbi.nlm.nih.gov/pubmed/4355366 (Accessed: 8 June 2018).

Goud Gadila, S. K., Williams, M., Saimani, U., Delgado Cruz, M., Makaraci, P., Woodman, S., Short, J. C. W., McDermott, H. and Kim, K. (2017) 'Yeast dynamin Vps1 associates with clathrin to facilitate vesicular trafficking and controls Golgi homeostasis', *European Journal of Cell Biology*. Urban & Fischer, 96(2), pp. 182–197. doi: 10.1016/J.EJCB.2017.02.004.

Grabs, D., Slepnev, V. I., Songyang, Z., David, C., Lynch, M., Cantley, L. C. and De Camilli, P. (1997) 'The SH3 Domain of Amphiphysin Binds the Proline-rich Domain of Dynamin at a Single Site That Defines a New SH3 Binding Consensus Sequence', *Journal of Biological Chemistry*, 272(20), pp. 13419–13425. doi: 10.1074/jbc.272.20.13419.

Grant, B. and Hirsh, D. (1999) 'Receptor-mediated endocytosis in the Caenorhabditis elegans oocyte.', *Molecular biology of the cell*, 10(12), pp. 4311–26. Available at: http://www.ncbi.nlm.nih.gov/pubmed/10588660 (Accessed: 2 June 2018).

Greer, C. and Schekman, R. (1982) 'Actin from Saccharomyces cerevisiae.', *Molecular and cellular biology*. American Society for Microbiology (ASM), 2(10), pp. 1270–8. Available at: http://www.ncbi.nlm.nih.gov/pubmed/6217414 (Accessed: 12 August 2018).

Grigliatti, T. A., Hall, L., Rosenbluth, R. and Suzuki, D. T. (1973) 'Temperature-Sensitive Mutations in Drosophila melanogaster XIV. A Selection of Immobile Adults *', Molec. gen. Genet, 120, pp. 107–114. Available at:

https://link.springer.com/content/pdf/10.1007%2FBF00267238.pdf (Accessed: 6 June 2018).

Gurunathan, S., David, D. and Gerst, J. E. (2002) 'Dynamin and clathrin are required for the biogenesis of a distinct class of secretory vesicles in yeast.', *The EMBO journal*. European Molecular Biology Organization, 21(4), pp. 602–14. doi: 10.1093/EMBOJ/21.4.602.

Hemmaplardh, D. and Morgan, E. H. (1976) 'Transferrin uptake and release by reticulocytes treated with proteolytic enzymes and neuraminidase', *Biochimica et Biophysica Acta (BBA) - Biomembranes*. Elsevier, 426(3), pp. 385–398. doi: 10.1016/0005-2736(76)90384-9.

Henne, W. M., Boucrot, E., Meinecke, M., Evergren, E., Vallis, Y., Mittal, R. and McMahon, H. T. (2010) 'FCHo Proteins Are Nucleators of Clathrin-Mediated Endocytosis', *Science*, 328(5983), pp. 1281–1284. doi: 10.1126/science.1188462.

Heuser, J. E. and Reese, T. S. (1973) 'Evidence for recycling of synaptic vesicle membrane during transmitter release at the frog neuromuscular junction.', *The Journal of cell biology*, 57(2), pp. 315–44. Available at: http://www.ncbi.nlm.nih.gov/pubmed/4348786 (Accessed: 2 June 2018).

Hoepfner, D., van den Berg, M., Philippsen, P., Tabak, H. F. and Hettema, E. H. (2001) 'A role for Vps1p, actin, and the Myo2p motor in peroxisome abundance and inheritance in *Saccharomyces cerevisiae*', *The Journal of Cell Biology*, 155(6), pp. 979–990. doi: 10.1083/jcb.200107028.

Hohendahl, A., Talledge, N., Galli, V., Shen, P. S., Humbert, F., De Camilli, P., Frost, A. and Roux, A. (2017) 'Structural inhibition of dynamin-mediated membrane fission by endophilin', *eLife*. eLife Sciences Publications Limited, 6, p. e26856. doi: 10.7554/eLife.26856.

Huang, F., Khvorova, A., Marshall, W. and Sorkin, A. (2004) 'Analysis of Clathrin-mediated Endocytosis of Epidermal Growth Factor Receptor by RNA Interference', *Journal of Biological Chemistry*, 279(16), pp. 16657–16661. doi:

10.1074/jbc.C400046200.

Huber, F., Meurer, M., Bunina, D., Kats, I., Maeder, C. I., Štefl, M., Mongis, C. and Knop, M. (2014) 'PCR Duplication: A One-Step Cloning-Free Method to Generate Duplicated Chromosomal Loci and Interference-Free Expression Reporters in Yeast', *PLOS ONE*, 9(12), p. e114590. doi: 10.1371/journal.pone.0114590.

Huttner, W. B. and Schmidt, A. (2000) 'Lipids, lipid modification and lipid–protein interaction in membrane budding and fission — insights from the roles of endophilin A1 and synaptophysin in synaptic vesicle endocytosis', *Current Opinion in Neurobiology*. Elsevier Current Trends, 10(5), pp. 543–551. doi: 10.1016/S0959-4388(00)00126-4.

Jennifer L Gallop, C. C. J. (2006) 'Mechanism of endophilin N-BAR domain-mediated membrane curvature.', *The EMBO journal*, 25(12), pp. 2898–910. doi: 10.1038/sj.emboj.7601174.

Kaksonen, M., Sun, Y. and Drubin, D. G. (2003) 'A pathway for association of receptors, adaptors, and actin during endocytic internalization', *Cell*, 115(4), pp. 475–487. Available at: http://www.ncbi.nlm.nih.gov/pubmed/14622601.

Kaksonen, M., Toret, C. P. and Drubin, D. G. (2005) 'A Modular Design for the Clathrin- and Actin-Mediated Endocytosis Machinery', *Cell*, 123(2), pp. 305–320. doi: 10.1016/j.cell.2005.09.024.

Kanaseki, T. and Kadota, K. (1969) 'The "vesicle in a basket". A morphological study of the coated vesicle isolated from the nerve endings of the guinea pig brain, with special reference to the mechanism of membrane movements.', *The Journal of cell biology*. Rockefeller University Press, 42(1), pp. 202–20. doi: 10.1083/JCB.42.1.202.

Karin, M. and Mintz, B. (1981) 'Receptor-mediated endocytosis of transferrin in developmentally totipotent mouse teratocarcinoma stem cells.', *The Journal of biological chemistry*, 256(7), pp. 3245–52. Available at: http://www.ncbi.nlm.nih.gov/pubmed/6259157 (Accessed: 3 June 2018).

Kearns, B. G., McGee, T. P., Mayinger, P., Gedvilaite, A., Phillips, S. E., Kagiwada, S. and Bankaitis, V. A. (1997) 'Essential role for diacylglycerol in protein transport from the yeast Golgi complex', *Nature*, 387(6628), pp. 101–105. doi: 10.1038/387101a0.

Kishimoto, T., Sun, Y., Buser, C., Liu, J., Michelot, A. and Drubin, D. G. (2011) 'Determinants of endocytic membrane geometry, stability, and scission', *Proceedings of the National Academy of Sciences*, 108(44), pp. E979–E988. doi: 10.1073/pnas.1113413108.

Kishimoto, T., Sun, Y., Buser, C., Liu, J., Michelot, A. and Drubin, D. G. (2011) 'Determinants of endocytic membrane geometry, stability, and scission', *Proceedings of the National Academy of Sciences of the United States of America*, 108(44), pp. E979–E988. doi: 10.1073/pnas.1113413108.

Koteliansky, V. E., Glukhova, M. A., Bejanian, M. V., Surguchov, A. P. and Smirnov, V. N. (1979) 'Isolation and characterization of actin-like protein from yeast Saccharomyces Cerevisiae', *FEBS Letters*. No longer published by Elsevier, 102(1), pp. 55–58. doi: 10.1016/0014-5793(79)80927-8.

Kozlovsky, Y. and Kozlov, M. M. (2003) 'Membrane fission: model for intermediate structures.', *Biophysical journal*. Elsevier, 85(1), pp. 85–96. doi: 10.1016/S0006-3495(03)74457-9.

Kübler, E. and Riezman, H. (1993) 'Actin and fimbrin are required for the internalization step of endocytosis in yeast.', *The EMBO Journal*, 12(7), pp. 2855–2862. Available at:

Kukulski, W., Picco, A., Specht, T., Briggs, J. A. and Kaksonen, M. (2016) 'Clathrin modulates vesicle scission, but not invagination shape, in yeast endocytosis', *eLife*, 5. doi: 10.7554/eLife.16036.

Kukulski, W., Schorb, M., Kaksonen, M. and Briggs, J. A. G. (2012) 'Plasma Membrane Reshaping during Endocytosis Is Revealed by Time-Resolved Electron Tomography', *Cell*, 150(3), pp. 508–520. doi: 10.1016/j.cell.2012.05.046.

Lee, E., Marcucci, M., Daniell, L., Pypaert, M., Weisz, O. A., Ochoa, G.-C., Farsad, K., Wenk, M. R. and De Camilli, P. (2002) 'Amphiphysin 2 (Bin1) and T-tubule biogenesis in muscle.', *Science (New York, N.Y.)*. American Association for the Advancement of Science, 297(5584), pp. 1193–6. doi: 10.1126/science.1071362.

Lila, T. and Drubin, D. G. (1997) 'Evidence for physical and functional interactions among two Saccharomyces cerevisiae SH3 domain proteins, an adenylyl cyclase-associated protein and the actin cytoskeleton.', *Molecular Biology of the Cell*, 8(2), pp. 367–385. doi: 10.1091/mbc.8.2.367.

Liu, J., Kaksonen, M., Drubin, D. G. and Oster, G. (2006a) 'Endocytic vesicle scission by lipid phase boundary forces.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 103(27), pp. 10277–82. doi: 10.1073/pnas.0601045103.

Liu, J., Sun, Y., Drubin, D. G. and Oster, G. F. (2009) 'The Mechanochemistry of Endocytosis', *PLoS Biology*. Edited by F. Hughson. Public Library of Science, 7(9), p. e1000204. doi: 10.1371/journal.pbio.1000204.

Lombardi, R. and Riezman, H. (2001) 'Rvs161p and Rvs167p, the Two Yeast Amphiphysin Homologs, Function Together in Vivo', *Journal of Biological Chemistry*, 276(8), pp. 6016–6022. doi: 10.1074/jbc.M008735200.

Madania, A., Dumoulin, P., Grava, S., Kitamoto, H., Schärer-Brodbeck, C., Soulard, A., Moreau, V. and Winsor, B. (1999) 'The Saccharomyces cerevisiae homologue of human Wiskott-Aldrich syndrome protein Las17p interacts with the Arp2/3 complex.', *Molecular biology of the cell*. American Society for Cell Biology, 10(10), pp. 3521–38. doi: 10.1091/MBC.10.10.3521.

Masuda, M., Takeda, S., Sone, M., Ohki, T., Mori, H., Kamioka, Y. and Mochizuki, N. (2006) 'Endophilin BAR domain drives membrane curvature by two newly identified structure-based mechanisms.', *The EMBO journal*. European Molecular Biology Organization, 25(12), pp. 2889–97. doi: 10.1038/sj.emboj.7601176.

Maxfield, F. R. (2014) 'Role of Endosomes and Lysosomes in Human Disease', Cold

Spring Harbor Perspectives in Biology, 6(5), pp. a016931–a016931. doi: 10.1101/cshperspect.a016931.

Mayer, B. J. (2001) 'SH3 domains: complexity in moderation.', *Journal of cell science*, 114(Pt 7), pp. 1253–63. Available at: http://www.ncbi.nlm.nih.gov/pubmed/11256992 (Accessed: 10 July 2018).

McMahon, H. T. and Mills, I. G. (2004) 'COP and clathrin-coated vesicle budding: different pathways, common approaches', *Current Opinion in Cell Biology*. Elsevier Current Trends, 16(4), pp. 379–391. doi: 10.1016/J.CEB.2004.06.009.

McPherson, P. S., Garcia, E. P., Slepnev, V. I., David, C., Zhang, X., Grabs, D., Sossini, W. S., Bauerfeind, R., Nemoto, Y. and De Camilli, P. (1996) 'A presynaptic inositol-5-phosphatase', *Nature*, 379(6563), pp. 353–357. doi: 10.1038/379353a0.

Meinecke, M., Boucrot, E., Camdere, G., Hon, W.-C., Mittal, R. and McMahon, H. T. (2013) 'Cooperative recruitment of dynamin and BIN/amphiphysin/Rvs (BAR) domain-containing proteins leads to GTP-dependent membrane scission.', *The Journal of biological chemistry*. American Society for Biochemistry and Molecular Biology, 288(9), pp. 6651–61. doi: 10.1074/jbc.M112.444869.

Mercer, J., Schelhaas, M. and Helenius, A. (2010) 'Virus Entry by Endocytosis', *Annual Review of Biochemistry*. Annual Reviews , 79(1), pp. 803–833. doi: 10.1146/annurev-biochem-060208-104626.

Micheva, K. D., Ramjaun%, A. R., Kay, B. K. and Mcpherson, P. S. (1997) 'SH3 domain-dependent interactions of endophilin with amphiphysin', *FEBS Letters*, 414, pp. 308–312. Available at: https://ac.els-cdn.com/S0014579397010168/1-s2.0-S0014579397010168-main.pdf?_tid=77135c79-45d8-4ad1-86d6-a495348096e2&acdnat=1528392307_2ab4cf61926e58ed1534623723714913 (Accessed: 7 June 2018).

Mim, C., Cui, H., Gawronski-Salerno, J. A., Frost, A., Lyman, E., Voth, G. A. and Unger, V. M. (2012a) 'Structural basis of membrane bending by the N-BAR protein endophilin.', *Cell.* NIH Public Access, 149(1), pp. 137–45. doi:

10.1016/j.cell.2012.01.048.

Mim, C. and Unger, V. M. (2012) 'Membrane curvature and its generation by BAR proteins', *Trends in biochemical sciences*, 37(12), pp. 526–533. doi: 10.1016/j.tibs.2012.09.001.

Mosesson, Y., Mills, G. B. and Yarden, Y. (2008) 'Derailed endocytosis: an emerging feature of cancer', *Nature Reviews Cancer*. Nature Publishing Group, 8(11), pp. 835–850. doi: 10.1038/nrc2521.

Moustaq, L., Smaczynska-de Rooij, I. I., Palmer, S. E., Marklew, C. J. and Ayscough, K. R. (2016) 'Insights into dynamin-associated disorders through analysis of equivalent mutations in the yeast dynamin Vps1', *Microbial Cell*, 3(4), pp. 147–158. doi: 10.15698/mic2016.04.490.

Mund, M., Beek, J. A. van der, Deschamps, J., Dmitrieff, S., Monster, J. L., Picco, A., Nedelec, F., Kaksonen, M. and Ries, J. (2017) 'Systematic analysis of the molecular architecture of endocytosis reveals a nanoscale actin nucleation template that drives efficient vesicle formation', *bioRxiv*. Cold Spring Harbor Laboratory, p. 217836. doi: 10.1101/217836.

Myers, M. D., Ryazantsev, S., Hicke, L. and Payne, G. S. (2016) 'Calmodulin Promotes N-BAR Domain-Mediated Membrane Constriction and Endocytosis', *Developmental Cell*, 37(2), pp. 162–173. doi: 10.1016/j.devcel.2016.03.012.

Nannapaneni, S., Wang, D., Jain, S., Schroeder, B., Highfill, C., Reustle, L., Pittsley, D., Maysent, A., Moulder, S., McDowell, R. and Kim, K. (2010a) 'The yeast dynamin-like protein Vps1:vps1 mutations perturb the internalization and the motility of endocytic vesicles and endosomes via disorganization of the actin cytoskeleton', *European Journal of Cell Biology*, 89(7), pp. 499–508. doi: 10.1016/j.ejcb.2010.02.002.

Neumann, S. and Schmid, S. L. (2013) 'Dual role of BAR domain-containing proteins in regulating vesicle release catalyzed by the GTPase, dynamin-2.', *The Journal of biological chemistry*. American Society for Biochemistry and Molecular

Biology, 288(35), pp. 25119-28. doi: 10.1074/jbc.M113.490474.

Otsuki, M., Itoh, T. and Takenawa, T. (2003) 'Neural Wiskott-Aldrich Syndrome Protein Is Recruited to Rafts and Associates with Endophilin A in Response to Epidermal Growth Factor', *Journal of Biological Chemistry*, 278(8), pp. 6461–6469. doi: 10.1074/jbc.M207433200.

Payne, G. (2013) 'Clathrin, adaptors and disease: Insights from the yeast Saccharomyces cerevisiae', *Frontiers in Bioscience*, 18(3), p. 862. doi: 10.2741/4149.

Payne, G. S. and Schekman, R. (1985) 'A test of clathrin function in protein secretion and cell growth.', *Science (New York, N.Y.)*, 230(4729), pp. 1009–14. Available at: http://www.ncbi.nlm.nih.gov/pubmed/2865811 (Accessed: 2 June 2018).

Pearse, B. M. (1976) 'Clathrin: a unique protein associated with intracellular transfer of membrane by coated vesicles.', *Proceedings of the National Academy of Sciences*, 73(4), pp. 1255–1259. doi: 10.1073/pnas.73.4.1255.

Peter, B. J., Kent, H. M., Mills, I. G., Vallis, Y., Butler, P. J. G., Evans, P. R. and McMahon, H. T. (2004) 'BAR Domains as Sensors of Membrane Curvature: The Amphiphysin BAR Structure', *Science*, 303(5657), pp. 495–499. doi: 10.1126/science.1092586.

Peters, C., Baars, T. L., Bühler, S. and Mayer, A. (2004) 'Mutual control of membrane fission and fusion proteins.', *Cell*. Elsevier, 119(5), pp. 667–78. doi: 10.1016/j.cell.2004.11.023.

Picco, A., Kukulski, W., Manenschijn, H. E., Specht, T., Briggs, J. A. G. and Kaksonen, M. (2018) 'The contributions of the actin machinery to endocytic membrane bending and vesicle formation', *Molecular Biology of the Cell*, 29(11), pp. 1346–1358. doi: 10.1091/mbc.E17-11-0688.

Picco, A., Mund, M., Ries, J., Nédélec, F. and Kaksonen, M. (2015) 'Visualizing the

functional architecture of the endocytic machinery', *eLife*, p. e04535. doi: 10.7554/eLife.04535.

Poodry, C. A. and Edgar, L. (1979) 'Reversible alteration in the neuromuscular junctions of Drosophila melanogaster bearing a temperature-sensitive mutation, shibire.', *The Journal of cell biology*. Rockefeller University Press, 81(3), pp. 520–7. doi: 10.1083/JCB.81.3.520.

Pykäläinen, A., Boczkowska, M., Zhao, H., Saarikangas, J., Rebowski, G., Jansen, M., Hakanen, J., Koskela, E. V, Peränen, J., Vihinen, H., Jokitalo, E., Salminen, M., Ikonen, E., Dominguez, R. and Lappalainen, P. (2011) 'Pinkbar is an epithelial-specific BAR domain protein that generates planar membrane structures.', *Nature structural & molecular biology*. NIH Public Access, 18(8), pp. 902–7. doi: 10.1038/nsmb.2079.

Qualmann, B., Koch, D. and Kessels, M. M. (2011) 'Let's go bananas: revisiting the endocytic BAR code', *The EMBO Journal*, 30(17), pp. 3501–3515. doi: 10.1038/emboj.2011.266.

Razzaq, A., Robinson, I. M., McMahon, H. T., Skepper, J. N., Su, Y., Zelhof, A. C., Jackson, A. P., Gay, N. J. and O'Kane, C. J. (2001) 'Amphiphysin is necessary for organization of the excitation-contraction coupling machinery of muscles, but not for synaptic vesicle endocytosis in Drosophila.', *Genes & development*. Cold Spring Harbor Laboratory Press, 15(22), pp. 2967–79. doi: 10.1101/gad.207801.

Ren, G., Vajjhala, P., Lee, J. S., Winsor, B. and Munn, A. L. (2006) 'The BAR domain proteins: molding membranes in fission, fusion, and phagy.', *Microbiology and molecular biology reviews : MMBR*. American Society for Microbiology (ASM), 70(1), pp. 37–120. doi: 10.1128/MMBR.70.1.37-120.2006.

Riezman, H. (1985) 'Endocytosis in Yeast: Several of the Yeast Secretory Mutants Are Defective in Endocytosis', *Cell*, 40(0), pp. 1001–1009. Available at: https://www.cell.com/cell/pdf/0092-8674(85)90360-5.pdf (Accessed: 3 June 2018).

Ringstad, N., Nemoto, Y. and De Camilli, P. (1997) 'The SH3p4/Sh3p8/SH3p13 protein family: binding partners for synaptojanin and dynamin via a Grb2-like Src homology 3 domain.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 94(16), pp. 8569–74. doi: 10.1073/PNAS.94.16.8569.

Rooij, I. I. S. -d., Allwood, E. G., Aghamohammadzadeh, S., Hettema, E. H., Goldberg, M. W. and Ayscough, K. R. (2010) 'A role for the dynamin-like protein Vps1 during endocytosis in yeast', *Journal of Cell Science*, 123(20), pp. 3496–3506. doi: 10.1242/jcs.070508.

ROTH, T. F. and PORTER, K. R. (1964) 'YOLK PROTEIN UPTAKE IN THE OOCYTE OF THE MOSQUITO AEDES AEGYPTI. L.', *The Journal of cell biology*, 20, pp. 313–32. Available at: http://www.ncbi.nlm.nih.gov/pubmed/14126875 (Accessed: 28 December 2017).

Rothman, J. H., Raymond, C. K., Gilbert, T., O'Hara, P. J. and Stevens, T. H. (1990) 'A putative GTP binding protein homologous to interferon-inducible Mx proteins performs an essential function in yeast protein sorting.', *Cell*. Elsevier, 61(6), pp. 1063–74. doi: 10.1016/0092-8674(90)90070-U.

Saarikangas, J., Zhao, H., Pykäläinen, A., Laurinmäki, P., Mattila, P. K., Kinnunen, P. K. J., Butcher, S. J. and Lappalainen, P. (2009) 'Molecular Mechanisms of Membrane Deformation by I-BAR Domain Proteins', *Current Biology*, 19(2), pp. 95–107. doi: 10.1016/j.cub.2008.12.029.

Sakamuro, D., Elliott, K. J., Wechsler-Reya, R. and Prendergast, G. C. (1996) 'BIN1 is a novel MYC-interacting protein with features of a tumour suppressor.', *Nature genetics*, 14(1), pp. 69–77. doi: 10.1038/ng0996-69.

Shimada, A., Niwa, H., Tsujita, K., Suetsugu, S., Nitta, K., Hanawa-Suetsugu, K., Akasaka, R., Nishino, Y., Toyama, M., Chen, L., Liu, Z.-J., Wang, B.-C., Yamamoto, M., Terada, T., Miyazawa, A., Tanaka, A., Sugano, S., Shirouzu, M., Nagayama, K., Takenawa, T. and Yokoyama, S. (2007) 'Curved EFC/F-BAR-domain dimers are

joined end to end into a filament for membrane invagination in endocytosis', *Cell*, 129(4), pp. 761–772. doi: 10.1016/j.cell.2007.03.040.

Shpetner, H. S. and Vallee, R. B. (1989) 'Identification of dynamin, a novel mechanochemical enzyme that mediates interactions between microtubules.', *Cell.* Elsevier, 59(3), pp. 421–32. doi: 10.1016/0092-8674(89)90027-5.

Shupliakov, O., Löw, P., Grabs, D., Gad, H., Chen, H., David, C., Takei, K., De Camilli, P. and Brodin, L. (1997) 'Synaptic vesicle endocytosis impaired by disruption of dynamin-SH3 domain interactions.', *Science (New York, N.Y.)*, 276(5310), pp. 259–63. Available at: http://www.ncbi.nlm.nih.gov/pubmed/9092476 (Accessed: 27 May 2018).

Simunovic, M., Manneville, J.-B., Renard, H.-F. O., Johannes, L., Bassereau, P., Callan, A., Correspondence, -Jones, Evergren, E., Raghunathan, K., Bhatia, D., Kenworthy, A. K., Voth, G. A., Prost, J., Mcmahon, H. T. and Callan-Jones, A. (2017a) 'Friction Mediates Scission of Tubular Membranes Scaffolded by BAR Proteins', *Cell*. Elsevier Inc, 170, pp. 1–13. doi: 10.1016/j.cell.2017.05.047.

Singer-Krüger, B., Nemoto, Y., Daniell, L., Ferro-Novick, S. and De Camilli, P. (1998) 'Synaptojanin family members are implicated in endocytic membrane traffic in yeast.', *Journal of cell science*, 111 (Pt 2, pp. 3347–3356. Available at: http://jcs.biologists.org/content/joces/111/22/3347.full.pdf (Accessed: 24 October 2017).

Sivadon, P., Bauer, F., Aigle, M. and Crouzet, M. (1995) 'Actin cytoskeleton and budding pattern are altered in the yeast rvs161 mutant: the Rvs161 protein shares common domains with the brain protein amphiphysin.', *Molecular & general genetics : MGG*, 246(4), pp. 485–95. doi: 10.1007/bf00290452.

Sivadon, P., Crouzet, M. and Aigle, M. (1997a) 'Functional assessment of the yeast Rvs161 and Rvs167 protein domains.', *FEBS letters*, 417(1), pp. 21–7. doi: 10.1016/s0014-5793(97)01248-9.

Skruzny, M., Brach, T., Ciuffa, R., Rybina, S., Wachsmuth, M. and Kaksonen, M.

(2012) 'Molecular basis for coupling the plasma membrane to the actin cytoskeleton during clathrin-mediated endocytosis.', *Proceedings of the National Academy of Sciences of the United States of America*. National Academy of Sciences, 109(38), pp. E2533-42. doi: 10.1073/pnas.1207011109.

Snead, W., Zeno, W., Kago, G., Perkins, R., Richter, J. B., Lafer, E. and Stachowiak, J. (2018) 'BAR scaffolds drive membrane fission by crowding disordered domains', *bioRxiv*. Cold Spring Harbor Laboratory, p. 276147. doi: 10.1101/276147.

Sorre, B., Callan-Jones, A., Manzi, J., Goud, B., Prost, J., Bassereau, P. and Roux, A. (2012) 'Nature of curvature coupling of amphiphysin with membranes depends on its bound density', *Proceedings of the National Academy of Sciences*, 109(1), pp. 173–178. doi: 10.1073/pnas.1103594108.

Srinivasan, S., Seaman, M., Nemoto, Y., Daniell, L., Suchy, S. F., Emr, S., De Camilli, P. and Nussbaum, R. (1997) 'Disruption of three phosphatidylinositol-polyphosphate 5-phosphatase genes from Saccharomyces cerevisiae results in pleiotropic abnormalities of vacuole morphology, cell shape, and osmohomeostasis.', *European journal of cell biology*, 74(4), pp. 350–60. Available at: http://www.ncbi.nlm.nih.gov/pubmed/9438131 (Accessed: 25 October 2017).

Stachowiak, J. C., Brodsky, F. M. and Miller, E. A. (2013) 'A cost-benefit analysis of the physical mechanisms of membrane curvature', *Nature Cell Biology*, 15(9), pp. 1019–1027. doi: 10.1038/ncb2832.

Stefan, C. J., Audhya, A. and Emr, S. D. (2002) 'The Yeast Synaptojanin-like Proteins Control the Cellular Distribution of Phosphatidylinositol (4,5)-Bisphosphate', *Molecular Biology of the Cell*, 13(2), pp. 542–557. doi: 10.1091/mbc.01-10-0476.

Stolz, L. E., Huynh, C. V, Thorner, J. and York, J. D. (1998) 'Identification and Characterization of an Essential Family of Inositol Polyphosphate 5-Phosphatases (INP51, INP52 and INP53 Gene Products) in the Yeast Saccharomyces cerevisiae'. Available at:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1460112/pdf/9560389.pdf

(Accessed: 5 April 2017).

Sun, Y., Carroll, S., Kaksonen, M., Toshima, J. Y. and Drubin, D. G. (2007) 'PtdIns(4,5)P2 turnover is required for multiple stages during clathrin- and actindependent endocytic internalization', *The Journal of cell biology*, 177(2), pp. 355–367. doi: 10.1083/jcb.200611011.

Sun, Y., Leong, N. T., Wong, T. and Drubin, D. G. (2015) 'A Pan1/End3/Sla1 complex links Arp2/3-mediated actin assembly to sites of clathrin-mediated endocytosis', *Molecular Biology of the Cell*, 26(21), pp. 3841–3856. doi: 10.1091/mbc.E15-04-0252.

Sweitzer, S. M. and Hinshaw, J. E. (1998) 'Dynamin Undergoes a GTP-Dependent Conformational Change Causing Vesiculation', *Cell*. Cell Press, 93(6), pp. 1021–1029. doi: 10.1016/S0092-8674(00)81207-6.

Takei, K., McPherson, P. S., Schmid, S. L. and Camilli, P. De (1995) 'Tubular membrane invaginations coated by dynamin rings are induced by GTP-γS in nerve terminals', *Nature*. Nature Publishing Group, 374(6518), pp. 186–190. doi: 10.1038/374186a0.

Takei, K., Slepnev, V. I., Haucke, V. and De Camilli, P. (1999) 'Functional partnership between amphiphysin and dynamin in clathrin-mediated endocytosis', *Nature Cell Biology*, 1(1), pp. 33–39. doi: 10.1038/9004.

Taylor, M. J., Perrais, D. and Merrifield, C. J. (2011) 'A high precision survey of the molecular dynamics of mammalian clathrin-mediated endocytosis', *PLoS biology*, 9(3), p. e1000604. doi: 10.1371/journal.pbio.1000604.

Toshima, J. Y., Furuya, E., Nagano, M., Kanno, C., Sakamoto, Y., Ebihara, M., Siekhaus, D. E. and Toshima, J. (2016) 'Yeast Eps15-like endocytic protein Pan1p regulates the interaction between endocytic vesicles, endosomes and the actin cytoskeleton.', *eLife*. eLife Sciences Publications, Ltd, 5. doi: 10.7554/eLife.10276.

Toume, M. and Tani, M. (2016) 'Yeast lacking the amphiphysin family protein

Rvs167 is sensitive to disruptions in sphingolipid levels', *The FEBS Journal*, 283(15), pp. 2911–2928. doi: 10.1111/febs.13783.

Traub, L. M. (2005) 'Common principles in clathrin-mediated sorting at the Golgi and the plasma membrane', *Biochimica et Biophysica Acta (BBA) - Molecular Cell Research*, 1744(3), pp. 415–437. doi: 10.1016/j.bbamcr.2005.04.005.

Ungewickell, E. and Branton, D. (1981) 'Assembly units of clathrin coats', *Nature*. Nature Publishing Group, 289(5796), pp. 420–422. doi: 10.1038/289420a0.

Varkey, J., Isas, J. M., Mizuno, N., Jensen, M. B., Bhatia, V. K., Jao, C. C., Petrlova, J., Voss, J. C., Stamou, D. G., Steven, A. C. and Langen, R. (2010) 'Membrane curvature induction and tubulation are common features of synucleins and apolipoproteins.', *The Journal of biological chemistry*. American Society for Biochemistry and Molecular Biology, 285(42), pp. 32486–93. doi: 10.1074/jbc.M110.139576.

Verschueren, E., Spiess, M., Gkourtsa, A., Avula, T., Landgraf, C., Mancilla, V. T., Huber, A., Volkmer, R., Winsor, B., Serrano, L., Hochstenbach, F. and Distel, B. (2015) 'Evolution of the SH3 Domain Specificity Landscape in Yeasts', *PLoS ONE*, 10(6). doi: 10.1371/journal.pone.0129229.

Weinberg, J. and Drubin, D. G. (2012) 'Clathrin-mediated endocytosis in budding yeast.', *Trends in cell biology*. NIH Public Access, 22(1), pp. 1–13. doi: 10.1016/j.tcb.2011.09.001.

Weissenhorn, W. (2005) 'Crystal Structure of the Endophilin-A1 BAR Domain', *Journal of Molecular Biology*. Academic Press, 351(3), pp. 653–661. doi: 10.1016/J.JMB.2005.06.013.

Wendland, B. and Emr, S. D. (1998) 'Pan1p, yeast eps15, functions as a multivalent adaptor that coordinates protein-protein interactions essential for endocytosis.', *The Journal of cell biology*. Rockefeller University Press, 141(1), pp. 71–84. doi: 10.1083/JCB.141.1.71.

Wong, M. H., Meng, L., Rajmohan, R., Yu, S. and Thanabalu, T. (2010) 'Vrp1p-Las17p interaction is critical for actin patch polarization but is not essential for growth or fluid phase endocytosis in S. cerevisiae', *Biochimica et biophysica acta*, 1803(12), pp. 1332–1346. doi: 10.1016/j.bbamcr.2010.08.013.

Yidi Sun, A. C. M. (2006) 'Endocytic internalization in budding yeast requires coordinated actin nucleation and myosin motor activity.', *Developmental cell*, 11(1), pp. 33–46. doi: 10.1016/j.devcel.2006.05.008.

Youn, J.-Y., Friesen, H., Kishimoto, T., Henne, W. M., Kurat, C. F., Ye, W., Ceccarelli, D. F., Sicheri, F., Kohlwein, S. D., McMahon, H. T. and Andrews, B. J. (2010) 'Dissecting BAR Domain Function in the Yeast Amphiphysins Rvs161 and Rvs167 during Endocytosis', *Molecular Biology of the Cell*, 21(17), pp. 3054–3069. doi: 10.1091/mbc.E10-03-0181.

Yu, X. (2004) 'The yeast dynamin-related GTPase Vps1p functions in the organization of the actin cytoskeleton via interaction with Sla1p', *Journal of Cell Science*, 117(17), pp. 3839–3853. doi: 10.1242/jcs.01239.

Zhang, P. and Hinshaw, J. E. (2001) 'Three-dimensional reconstruction of dynamin in the constricted state', *Nature Cell Biology*. Nature Publishing Group, 3(10), pp. 922–926. doi: 10.1038/ncb1001-922.

Zhao, W.-D., Hamid, E., Shin, W., Wen, P. J., Krystofiak, E. S., Villarreal, S. A., Chiang, H.-C., Kachar, B. and Wu, L.-G. (2016) 'Hemi-fused structure mediates and controls fusion and fission in live cells.', *Nature*. NIH Public Access, 534(7608), pp. 548–52. doi: 10.1038/nature18598.