

Selected Publications

1. Sweet ME, Dubey V, Zhang X, Erdjument-Bromage H, Neubert TA, Pedersen BP, Khandelia H, Stokes DL. Serine Phosphorylation Regulates the P-type Potassium pump KdpFABC. *bioRxiv* 2020.01.28.923573. doi: <https://doi.org/10.1101/2020.01.28.923573>
2. Pedersen BP, Stokes DL, Apell HJ. The KdpFABC complex - K⁺ transport against all odds. *Mol Membr Biol*. 2019 Dec;35(1):21-38. doi: 10.1080/09687688.2019.1638977. PMID: 31259644; PMCID: PMC6681667.
3. Lopez-Redondo ML, Coudray N, Zhang Z, Alexopoulos J, Stokes DL. Structural basis for the alternating access mechanism of the cation diffusion facilitator YiiP. *PNAS*. 2018; 115(12):3042-3047. PMID: 29507252. PMCID: PMC5866550
4. Fai TG, Leo-Macias A, Stokes DL, Peskin CS. Image-based model of the spectrin cytoskeleton for red blood cell simulation. *PLoS computational biology*. 2017; 13(10):e1005790. PMID: 28991926. PMCID: PMC5654263
5. Huang CS, Pedersen BP, Stokes DL. Crystal structure of the potassium-importing KdpFABC membrane complex. *Nature*. 2017 Jun 29;546(7660):681-685. doi: 10.1038/nature22970. Epub 2017 Jun 21. PMID: 28636601; PMCID: PMC5495170.
6. Upla P, Kim SJ, Sampathkumar P, Dutta K, Cahill SM, Chemmama IE, Williams R, Bonanno JB, Rice WJ, Stokes DL, Cowburn D, Almo SC, Sali A, Rout MP, Fernandez-Martinez J. Molecular Architecture of the Major Membrane Ring Component of the Nuclear Pore Complex. *Structure*. 2017 Mar 7;25(3):434-445. doi: 10.1016/j.str.2017.01.006. Epub 2017 Feb 2. PMID: 28162953; PMCID: PMC5342941.
7. Coudray N, L Seyler S, Lasala R, Zhang Z, Clark KM, Dumont ME, Rohou A, Beckstein O, Stokes DL. Structure of the SLC4 transporter Bor1p in an inward-facing conformation. *Protein Sci*. 2017 Jan;26(1):130-145. doi: 10.1002/pro.3061. Epub 2016 Oct 21. PMID: 27717063; PMCID: PMC5192975.
8. Fernandez-Martinez J, Kim SJ, Shi Y, Upla P, Pellarin R, Gagnon M, Chemmama IE, Wang J, Nudelman I, Zhang W, Williams R, Rice WJ, Stokes DL, Zenklusen D, Chait BT, Sali A, Rout MP. Structure and Function of the Nuclear Pore Complex Cytoplasmic mRNA Export Platform. *Cell*. 2016 Nov 17;167(5):1215-1228.e25. doi: 10.1016/j.cell.2016.10.028. Epub 2016 Nov 10. PMID: 27839866; PMCID: PMC5130164.
9. Coudray N, Lasala R, Zhang Z, Clark KM, Dumont ME, Stokes DL. Deducing the symmetry of helical assemblies: Applications to membrane proteins. *J Struct Biol*. 2016 Aug;195(2):167-78. doi: 10.1016/j.jsb.2016.05.011. Epub 2016 May 30. PMID: 27255388; PMCID: PMC4944209.
10. Lasala R, Coudray N, Abdine A, Zhang Z, Lopez-Redondo M, Kirshenbaum R, Alexopoulos J, Zolnai Z, Stokes DL, Ubarretxena-Belandia I. Sparse and incomplete factorial matrices to screen membrane protein 2D crystallization. *J Struct Biol*. 2015 189:123-34. PMID: 25478971; PMCID: PMC4419781.
11. Choudhuri K, Llodrá J, Roth EW, Tsai J, Gordo S, Wucherpennig KW, Kam LC, Stokes DL, Dustin ML. Polarized release of T-cell-receptor-enriched microvesicles at the immunological synapse. *Nature*. 2014 507:118-23. PMID: 24487619; PMCID: PMC3949170.
12. Choi WS, Rice WJ, Stokes DL, Collier BS. Three-dimensional reconstruction of intact human integrin α IIb β 3: new implications for activation-dependent ligand binding. *Blood*. 2013 122(26):4165-71. PMID: 24136164; PMCID: PMC3868924.
13. Coudray, N., Valvo, S., Hu, M., Lasala, R., Kim, C., Vink, M., Zhou, M., Provasi, D., Filizola, M., Tao, J., Fang, J., Penczek, P.A., Ubarretxena-Belandia, I., Stokes, D.L., 2013. Inward-Facing Conformation of the Zinc Transporter YiiP revealed by Cryo-electron Microscopy, *PNAS*. 110:2140-5.
14. Schlame, M., Acehan, A., Berno, B., Xu, Y., Valvo, S., Ren, M., Stokes, D.L., Epanand, R.M. 2012. The Physical State of Lipid Substrates provides Transacylation Specificity for Tafazzin. *Nat. Chem. Biol*. 8:862-869.

Complete listing: <https://www.ncbi.nlm.nih.gov/myncbi/david.stokes.1/bibliography/public/>