

Briana Sobecks

Ph.D. Student in Chemical Engineering, admitted Autumn 2022

Publications

PUBLICATIONS

- **Mechanism of Gating and Isoform-Specific Inhibition in Renal CLC Chloride Channels.** *bioRxiv : the preprint server for biology*
Chien, C. T., Sobecks, B. L., Powers, A. S., Kreiter, J., Das, A., Barry, C. N., Chen, M., Hinman, A., Petrakian, C. F., Trifkovic, N., Williams, B., Wood, C. A., Xu, et al
2026
- **Molecular mechanism of exchange coupling in CLC chloride/proton antiporters.** *Nature communications*
Aydin, D., Chien, C. T., Kreiter, J., Nava, A. R., Portasikova, J. M., Fojtik, L., Sobecks, B. L., Mosquera, C., Man, P., Dror, R. O., Chiu, W., Maduke, M.
2026
- **Structure and mechanism of the mitochondrial calcium transporter NCLX.** *Nature*
Fan, M., Tsai, C. W., Zhang, J., Zhang, J., Krishnan, A. R., Liu, T. Y., Huang, Y. L., Aydin, D., Du, S., Sobecks, B. L., Rodriguez, M. X., Reiter, A. H., Bertozzi, et al
2025
- **A cryptic pocket in CB1 drives peripheral and functional selectivity** *NATURE*
Rangari, V., O'Brien, E. S., Powers, A. S., Slivicki, R. A., Bertels, Z., Appourchaux, K., Aydin, D., Ramos-Gonzalez, N., Mwirigi, J., Lin, L., Mangutov, E., Sobecks, B. L., Awad-Agbaria, et al
2025
- **Signaling Modulation Mediated by Ligand Water Interactions with the Sodium Site at μ OR.** *ACS central science*
Ople, R. S., Ramos-Gonzalez, N., Li, Q., Sobecks, B. L., Aydin, D., Powers, A. S., Faouzi, A., Polacco, B. J., Bernhard, S. M., Appourchaux, K., Sribhashyam, S., Eans, S. O., Tsai, et al
2024; 10 (8): 1490-1503
- **Dual Role of Strigolactone Signaling Partner in Decreasing Substrate Hydrolysis** *Journal of Physical Chemistry B*
Sobecks, B. L., Chen, J., Shukla, D.
2022