

# Stanford

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## Conor McClune

Postdoctoral Scholar, Chemical Engineering

### Bio

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#### PROFESSIONAL EDUCATION

- Bachelor of Arts, University of California Berkeley , Molecular and Cellular Biology (2012)
- Doctor of Philosophy, Massachusetts Institute of Technology (2019)
- PhD, Massachusetts Institute of Technology , Biology (Computational and Systems) (2019)
- BA, University of California, Berkeley , Biochemistry & Molecular Biology (Minor: Bioengineering) (2012)

#### STANFORD ADVISORS

- Elizabeth Sattely, Postdoctoral Faculty Sponsor
- Elizabeth Sattely, Postdoctoral Research Mentor

### Publications

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#### PUBLICATIONS

- **Multiplexed perturbation of yew reveals cryptic proteins that enable a total biosynthesis of baccatin III and Taxol precursors.** *bioRxiv : the preprint server for biology*  
McClune, C. J., Liu, J. C., Wick, C., De La Peña, R., Lange, B. M., Fordyce, P. M., Sattely, E. S.  
2024
- **Alleviating Cell Lysate-Induced Inhibition to Enable RT-PCR from Single Cells in Picoliter-Volume Double Emulsion Droplets** *ANALYTICAL CHEMISTRY*  
Khariton, M., McClune, C. J., Brower, K. K., Klemm, S., Sattely, E. S., Fordyce, P. M., Wang, B.  
2023; 95 (2): 935-945
- **Alleviating Cell Lysate-Induced Inhibition to Enable RT-PCR from Single Cells in Picoliter-Volume Double Emulsion Droplets.** *Analytical chemistry*  
Khariton, M., McClune, C. J., Brower, K. K., Klemm, S., Sattely, E. S., Fordyce, P. M., Wang, B.  
2023
- **Constraints on the expansion of paralogous protein families.** *Current biology : CB*  
McClune, C. J., Laub, M. T.  
2020; 30 (10): R460–R464
- **Engineering orthogonal signalling pathways reveals the sparse occupancy of sequence space.** *Nature*  
McClune, C. J., Alvarez-Buylla, A., Voigt, C. A., Laub, M. T.  
2019; 574 (7780): 702-706
- **Permanent genetic memory with >1-byte capacity.** *Nature methods*  
Yang, L., Nielsen, A. A., Fernandez-Rodriguez, J., McClune, C. J., Laub, M. T., Lu, T. K., Voigt, C. A.

