



## Franco Faucher

Ph.D. Student in Chemistry, admitted Summer 2019

### Bio

---

#### BIO

I come from the beautiful view also known as Chula Vista, California. I graduated from the University of California Berkeley with a B.S. in Chemistry and a minor in Biological Engineering in 2019. At Berkeley, I worked under the guidance of Dr. Gabor Somorjai working in the field of surface science. I also spent time researching in the Vision Science Program studying lipid circuits and immune response with Dr. Karsten Gronert. While at UC Berkeley, I completed a summer internship at Genentech. In the Bogoy lab, I am interested in developing covalent cyclic peptide inhibitors for future use as therapeutics, imaging agents, and biological tools.

#### HONORS AND AWARDS

- Cancer Early Detection Graduate Fellowship, Alliance for Cancer Early Detection, Canary Center (2022)
- NIH Biotechnology Graduate Fellowship, NIH Stanford Biotechnology Training Program (2021)
- Chemical Biology Interface Fellowship, Stanford CheM-H (2019)
- Enhancing Diversity in Graduate Education Fellowship, Stanford (2019)
- NSF Graduate Research Fellowship, National Science Foundation (2019)

#### EDUCATION AND CERTIFICATIONS

- Bachelors of Science, UC Berkeley , Chemistry, with Minor in Biological Engineering (2019)

### Research & Scholarship

---

#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Peptide Therapeutics and Diagnostics

Phage Display

Image Guided Surgery

Cancer Imaging

Macrocycles

Covalent Probes

### Publications

---

#### PUBLICATIONS

- **Covalent Macrocyclic Proteasome Inhibitors Mitigate Resistance in *Plasmodium falciparum*.** *ACS infectious diseases*  
Bennett, J. M., Ward, K. E., Muir, R. K., Kabeche, S., Yoo, E., Yeo, T., Lam, G., Zhang, H., Almaliti, J., Berger, G., Faucher, F. F., Lin, G., Gerwick, et al  
2023

- **Chemoproteomic identification of a DPP4 homolog in *Bacteroides thetaiotaomicron*.** *Nature chemical biology*  
Keller, L. J., Nguyen, T. H., Liu, L. J., Hurysz, B. M., Lakemeyer, M., Guerra, M., Gelsinger, D. J., Chanin, R., Ngo, N., Lum, K. M., Faucher, F., Ipock, P., Niphakis, et al  
2023
- **Protease Activated Probes for Real-Time Ratiometric Imaging of Solid Tumors** *ACS CENTRAL SCIENCE*  
Faucher, F. F., Liu, K. J., Cosco, E. D., Widen, J. C., Sorger, J., Guerra, M., Bogyo, M.  
2023: 1059-1069
- **Solid Phase Synthesis of Fluorosulfate Containing Macrocycles for Chemoproteomic Workflows** *Israel Journal of Chemistry*  
Faucher, F., Abegg, D., Ipock, P., Adibekian, A., Lovell, S., Bogyo, M.  
2023
- **Strategies for Tuning the Selectivity of Chemical Probes that Target Serine Hydrolases.** *Cell chemical biology*  
Faucher, F., Bennett, J. M., Bogyo, M., Lovell, S.  
2020
- **Supported iron catalysts for Michael addition reactions** *MOLECULAR CATALYSIS*  
Ye, R., Faucher, F. F., Somorjai, G. A.  
2018; 447: 65-71
- **New Insights into Aldol Reactions of Methyl Isocyanoacetate Catalyzed by Heterogenized Homogeneous Catalysts** *NANO LETTERS*  
Ye, R., Zhao, J., Yuan, B., Liu, W., De Araujo, J., Faucher, F. F., Chang, M., Deraedt, C. V., Toste, F., Somorjai, G. A.  
2017; 17 (1): 584-589