

Name Name

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SUMMARY

Protein biochemist with experience in multiple research areas using the following skills: assay development, single molecule biochemistry, various protein production and purification methodology, early phase drug discovery, high throughput drug screening, genetic screening, and FRET probe development

EDUCATION

University of California, San Francisco (UCSF) – Ph.D. Biochemistry – 2020

NSF GRFP Fellow, UCSF Discovery Fellow

University of California, Berkeley – B.S. (Double) Molecular Environmental Biology (Environment & Human Health) & Molecular Toxicology – 2011

Regents' and Chancellor's Scholar, Elks National Foundation Scholar, SAGE Scholar

EXPERIENCE

Tetrad Program, UCSF

Principal Investigator: Name Name

- Developing a novel single-molecule biochemical assay to investigate the kinetics of various substrates, including securin and cyclins, with the Anaphase-Promoting Complex
- Applying basic principles of protein biochemistry to express and purify several proteins in various systems including yeast, bacteria, insect cells, and *in vitro* translation
- Working with a collaborator to co-develop Python-based code to analyze single-molecule movies for k_{off} of protein-protein interactions
- Performing bulk biochemical assays such as fluorescence polarization anisotropy and ubiquitination assays to support single molecule assay development and further explore research questions

Doctoral Research

5/2016-Present

Dept. of Microbiology & Immunology, UCSF

Principal Investigator: Name Name

- Contributed to several projects related to early phase drug discovery (i.e. target identification, assay development, etc.) for *Candida albicans* biofilms, resulting in startup company Biosynthesis, Inc.
- Identified targets in *C. albicans* for downstream therapeutic analysis from a list of over 1,000 genes involved in the biofilm network using genetic knockouts and cell-based assays
- Developed high throughput screening assay for *C. albicans* biofilms to screen various compound libraries in collaboration with UCSF's Small Molecule Discovery Center
- Identified and developed a FRET probe as a diagnostic tool for *C. albicans* biofilm-based infections using proteomics in collaboration with Name Name's Lab at UCSF

Research Assistant & Lab Manager

1/2012-8/2014

INDUSTRY EXPERIENCE

Catalyst Program, UCSF

San Francisco, CA

- Assessed competitive landscape and business potential of a new protein expression system in green algae developed by Catalyst Prize awardees Wallace Marshall and Hiro Ishikawa
- Prepared a Target Product Profile and presented findings to industry advisors on behalf of the team

Intern

6/2019-9/2019

Novartis Institutes for Biomedical Research

Emeryville, CA

- Used siRNA-mediated knockdown in cancer cells to explore the functional role of two targets downstream of a Ser/Thr kinase, which is a known oncogene involved in cap-dependent translation

Intern

6/2011-8/2011

TEACHING & MENTORSHIP

Rotation Mentor

Tetrad Program, Lab Lab, UCSF

Winter 2019

- Designed experiments with mentee to scale up a FRET assay for a high throughput screen with the Small Molecule Discovery Center

Teaching Assistant

Fall 2016, Fall 2017

Course: Grant/Fellowship Writing

- Worked closely with course instructors and other TAs to develop a syllabus where students would learn how to write a scientific proposal and a personal statement and apply to the National Science Foundation Graduate Research Fellowship Program
- Taught a class of six students and both years 1 out of 6 was awarded the fellowship
- Received Tetrad Program Outstanding TA Award in 2017 for going above and beyond the call of duty

Teaching Assistant

Fall 2015

Course: Biochemistry 200a – Macromolecules

- Prepared problem sets, taught review sessions, and mentored students on a final project using microscopy to understand chemotaxis of amoeboflagellate *Naegleria gruberi*

Summer Research Mentor

Summer 2013

Lab Lab, UCSF

- Mentored a high school student for her summer research project conducting a growth based genetic screen with *C. albicans* transcription factor mutants to identify mutants in white-opaque switching

LEADERSHIP EXPERIENCE

Women in Life Sciences, Career Development Chair 2017-2018, President 2018-19

- Forged a partnership with UCSF's Science Policy Group to create programming surrounding NASEM study on Sexual Harassment, which has now turned into a major effort by several student groups and campus departments.

Associated Students of the Graduate Division, Program Rep., 2015-17, Diversity Officer, 2016-17

- Supported students by working with UCSF's Department of transportation to continue providing discounted parking rates for students unable to afford living in San Francisco

Lead Education and Awareness Program, Co-Founder, 2010-2012

- Created an outreach program focused on informing children and parents in low-socioeconomic neighborhoods in Alameda and Contra Costa counties about the dangers of lead poisoning

Toxicology Student Association of Berkeley, Founder, President, Adviser 2010-Present

- Founded organization to provide career, academic, and outreach opportunities in toxicology

SELECTED PUBLICATIONS (4 of 8)

Name, L.R., Name, M.B., **Name, N.** and Name Name (in prep) A set of diverse genes influence the frequency of white-opaque switching in *Candida albicans*

Name, M.B., Name, C.L. **Name, N.** Name, C.J., and Name Name (2020) A selective serotonin-reuptake inhibitor, a proton pump inhibitor, and two calcium channel blockers target *Candida albicans* biofilms. Submitted to *Journal of Fungi Special Issue on Fungal Biofilms*

Name, M.B., Name, E.C., Name, M.B., **Name, N.** Name, M., Name, H., Name, J., Name, B., Name, D., Name, A.D., Name, C.S., and C.J. Name (2016) Global identification of biofilm-specific proteolysis in *Candida albicans*. *MBio* 7(5). pii: e01514-16.

Name, E.P., Name, C.J., Name, J.E., **Name, N.**, Name, M.M., Name, D.R., and Name Name (2015) An Expanded Regulatory Network Temporally Controls *Candida albicans* Biofilm Formation. *Molecular Microbiology* 96(6): 1226-39.