# **Postdoctoral Fellow**

### *University of California at San Francisco, CA, United States*

The laboratory of Dr. Michael McManus ([https://mcmanuslab.ucsf.edu](https://mcmanuslab.ucsf.edu/)) at the University of California, San Francisco is seeking highly motivated post-doctoral scholars wishing to advance their research and career prospects. The McManus Lab combines multiple fields of genetics, developmental biology, synthetic biology, and systems biology to explore connections to human development and disease. Computational, engineering, quantitative biology, and cellular/molecular biology backgrounds are highly encouraged to apply.

Ongoing projects include a variety of methodologies including quantitative high-throughput screening based approaches, directed molecular evolution, CRISPR technologies, synthetic engineering of mouse models, machine learning, and a suite of assays based on deep sequencing. Biological questions are diverse and range from cancer to metabolism, studying epigenetic and developmental programming related to cell states. The McManus Lab is very collaborative and trainees develop significant independence while growing their research program in a highly supportive and well funded environment. There is a long track record for trainees obtaining excellent positions at high profile institutions.

Successful candidates will have a Ph.D., an M.D., or an M.D./Ph.D. degree(s) in any biological or biomedical science discipline with a record of publications and enjoy working in teams. Postdocs in the McManus Lab receive a very generous cost of living supplement.

Interested applicants should send a cover letter describing their research experience and career goals, along with their CV, and the names and email addresses of at three professional references to michael.mcmanus@ucsf.edu.

**Recent relevant publications include:**

Boettcher M et al, [Dual gene activation and knockout screen reveals directional dependencies in genetic networks.](https://www.ncbi.nlm.nih.gov/pubmed/29334369) Nat Biotechnol., 36(2):170-178 (2018)

Hangauer et al, [Drug-tolerant persister cancer cells are vulnerable to GPX4 inhibition.](https://www.ncbi.nlm.nih.gov/pubmed/29088702) Nature, 551(7679):247-250 (2017)

Yoneshiro et al, [BCAA catabolism in brown fat controls energy homeostasis through SLC25A44.](https://www.ncbi.nlm.nih.gov/pubmed/31435015) Nature, 572(7771):614-619 (2019)

Das et al, [The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research.](https://www.ncbi.nlm.nih.gov/pubmed/30951667) Cell, 177(2):231-242 (2019)

Elling et al, [Genetic Models Reveal cis and trans Immune-Regulatory Activities for lincRNA-Cox2.](https://www.ncbi.nlm.nih.gov/pubmed/30404006) Cell Rep, 25(6):1511-1524 (2018)

Kundaje et al, [Integrative analysis of 111 reference human epigenomes.](https://www.ncbi.nlm.nih.gov/pubmed/25693563) Nature, 518(7539):317-30 (2015)

Oprea et al, [Far away from the lamppost.](https://www.ncbi.nlm.nih.gov/pubmed/30532236) PLoS Biology, 16(12):e3000067 (2018)

**Current relevant NIH Funding includes:**

[TRACING CELL LINEAGES](https://projectreporter.nih.gov/project_info_description.cfm?aid=9544893&icde=48081640&ddparam=&ddvalue=&ddsub=&cr=1&csb=default&cs=ASC&pball=)

[FUNCTIONAL NETWORKS FOR PERSISTER CELL SENSITIVITIES](https://projectreporter.nih.gov/project_info_description.cfm?aid=9733157&icde=48081640&ddparam=&ddvalue=&ddsub=&cr=2&csb=default&cs=ASC&pball=)

[THE CANCER TARGET DISCOVERY AND DEVELOPMENT NETWORK AT UCSF](https://projectreporter.nih.gov/project_info_description.cfm?aid=9753177&icde=48081640&ddparam=&ddvalue=&ddsub=&cr=3&csb=default&cs=ASC&pball=)

[ILLUMINATING DRUGGABLE DARK MATTER](https://projectreporter.nih.gov/project_info_description.cfm?aid=9780494&icde=48081640&ddparam=&ddvalue=&ddsub=&cr=5&csb=default&cs=ASC&pball=)

[REGULATION OF DEVELOPMENTAL POTENCY BY THE TRANSPOSON LINE1](https://projectreporter.nih.gov/project_info_description.cfm?aid=9648160&icde=48081640&ddparam=&ddvalue=&ddsub=&cr=6&csb=default&cs=ASC&pball=)

[BAY AREA CRISPR REPORTERS](https://projectreporter.nih.gov/project_info_description.cfm?aid=9784914&icde=48081640&ddparam=&ddvalue=&ddsub=&cr=8&csb=default&cs=ASC&pball=)

UCSF is an equal opportunity employer and all qualified applicants will be considered without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin, disability status, protected veteran status, or any other characteristic protected by law.