University of California
San Francisco

UCSF

David M. Wilson, M.D., Ph.D.
Department of Radiology and Biomedical Imaging
Center for Functional and Molecular Imaging (CFMI)
China Basin Landing

Postdoctoral Position at University of California San Francisco (UCSF) in microbiology/ biochemistry

A postdoctoral fellowship is currently available in the Department of Radiology and Biomedical Imaging at the University of California, San Francisco (UCSF) working with Drs. Engel, Wilson and Ohliger to study the metabolic imaging of infection using bacteria-specific PET, hyperpolarized ^{13}C MRI, and deuterium spectroscopy methods. Both D-amino acid and para-aminobenzoic acid (PABA)-derived radiotracers and hyperpolarized ^{13}C spectroscopy methods have been reported:

https://pubs.acs.org/doi/10.1021/acscentsci.9b00743;
https://pubs.acs.org/doi/abs/10.1021/acsinfecdis.9b00196;
https://pubs.acs.org/doi/10.1021/acsinfecdis.7b00234;
https://pubs.acs.org/doi/full/10.1021/acsinfecdis.8b00061;
https://pubmed.ncbi.nlm.nih.gov/33637588/

The ideal candidate will have a strong background in biochemistry, microbiology, structural biology and the use of preclinical animal models. The most relevant experience would be with *in vitro* and *in vivo* models of biofilm development.

The successful applicant will work as part of a collaborative team and have access to a wide range of equipment, including at μPET/CT scanner, on-site cyclotron, ^{18}F and ^{11}C synthesis modules, hot cells, and liquid scintillation equipment. A dedicated cell and molecular biology laboratory, fully equipped for biological assays as well as a recently installed state of the art LC-MS system are used for complementary investigations.

If interested please contact Drs. David Wilson or Joanne Engel: David.m.Wilson@ucsf.edu; Joanne.Engel@ucsf.edu

UCSF is an Affirmative Action/Equal Opportunity Employer. All qualified applicants are encouraged to apply, including minorities and women. UCSF seeks candidates whose experience, teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence.