



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 NMR/ spectroscopy

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. Wilson, Ohliger, Chaumeil, Sriram and Gordon to study the metabolic imaging of infection using hyperpolarized ^{13}C MRI and ^2H methods. We have pursued positron emission tomography (PET), hyperpolarized ^{13}C spectroscopy, and ^2H methods in this area as well as developed new tools for modulation of bacterial genes:

<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/abs/10.1021/acsinfecdis.8b00061>;
<https://pubmed.ncbi.nlm.nih.gov/30617347/>.

The ideal candidate will have a strong background in MR spectroscopy, biochemistry, metabolism, and the use of preclinical animal models. A relevant experience would be previous work with bacteria.

The successful applicant will work as part of a collaborative team and have access to a wide range of equipment, including several dynamic nuclear polarization (DNP) polarizers, and several platforms for NMR/ small animal MRS. 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 Dr. David Wilson: David.m.wilson@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.