Postdoctoral Positions Available
Molecular MRI
Department of Bioengineering

The Vandsburger lab in the Department of Bioengineering at the University of California, Berkeley is accepting applications for two post-doctoral researchers in the area of targeted CEST-MRI of in vivo gene editing technology. This work is funded by the Somatic Cell Gene Editing Consortium at the NIH and is intended to result in rapidly translatable and disseminated methodology within the consortium. The scope and consortium details can be found in the recent Nature white paper here.

Responsibilities:
The positions focus on the development of novel organic CEST-MRI agents and mechanisms for targeted imaging of cellular markers of in vivo gene editing in the settings of cardiac, muscle, and kidney diseases. Scholars are expected to utilize strong skills and background in either magnetic resonance physics, organic chemistry, molecular biology, NMR/EPR spectroscopy, analytical methods and/or machine learning for assessing imaging data to explore a novel area of CEST-MRI. The specific tasks include (i) the identification and NMR assessment of organic compounds with targeted affinity or the development of enzymatic activators of existing CEST agents (ii) the design of appropriate CEST-MRI acquisition methods to target these compounds, (iii) the completion of proof of principle experiments, (iv) and the ultimate application to pre-clinical models and control human subjects. Working closely with researchers on other MRI projects at Berkeley and other institutions within the SCGE consortium, the researcher is expected to publish peer-reviewed articles, contribute to patent applications, and present findings at national and international conferences.

UC Berkeley system wide commitments to diversity, equity and inclusion as well as details regarding competitive salary and benefits, collective bargaining, and full job details can be found at the application portal at https://aprecruit.berkeley.edu/JPF03059

Intended start date is as soon as possible