

Post-doctoral positions in neuroimaging and hyperpolarized ^{13}C neuroimaging research



Date: March 1st, 2022; open until filled

Location: Mission Bay Campus, University of California San Francisco

Description: Postdoctoral positions available for highly motivated candidates with a strong background in preclinical models, MR neuroimaging, biochemistry and/or brain metabolism to join the Chaumeil Lab in the Quantitative Bioscience Institute (QBI) at UCSF (<http://chaumeillab.ucsf.edu>).

The goal of our research program is to develop mechanism-driven MR imaging/spectroscopy approaches for improved detection of neurological disorders and monitoring of therapeutic response. We use preclinical models of Multiple Sclerosis, Alzheimer's disease and CNS lymphoma (to date). We develop and biologically validate new hyperpolarized probes, as well as optimized imaging strategies for diagnosis and monitoring of treatment.

Job requirements:

1. Completed Ph.D. in MR Imaging/Spectroscopy, Neuroimaging, Biochemistry, Biomedical Engineering, Neurosciences or a related field, with an emphasis on brain.
2. Knowledgeable within one or more of the following subjects: MRI/S, high field imaging, X-nuclei, metabolism, hyperpolarized ^{13}C , DNP, MR sequence programming, data processing, neurological disorders, metabolomics.
3. Proven ability to clearly communicate novel research findings through oral presentation and written publication.
4. Ability to work with people who have both similar and different backgrounds
5. Evidence of top quality research on the above specified areas in the form of published papers in top conferences/journals.

Preferred characteristics:

1. Experience with data analysis/post-processing, using R, Python or Matlab.
2. Experience with preclinical models of disease (animal handling procedures)
3. Experience with quantitative biochemistry for metabolism (western blots, activity assays, PCR, immunohistochemistry, tissue extraction, etc..)

The successful candidate is expected to publish his/her research results in leading international journals and conferences. She/he is also expected to contribute to the set-up of new project proposals, participate in funding activities, supervising Ph.D. candidates and collaborate with scientists from different disciplines. We anticipate providing significant training in those disciplines with which the candidate is less familiar. Interested individuals are encouraged to email a curriculum vitae, a list of three references, and a statement of research interests and career goals to Myriam M. Chaumeil, PhD, Associate Professor in Residence: myriam.chaumeil@ucsf.edu.

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