Postdoctoral Fellowship in Neuroradiology: MRI-Histology

**Tools**

Human imaging: *in vivo* & *ex vivo* brain specimens  
3.0T MR  
7.0T MR – human head and small bore for animals/specimens  
PET-MR  
Advanced pulse sequence implementation  
DTI/QSM/Hippocampal Subfield Analyses  
Traditional Histology & quantitative correlation with MRI  
CLARITY, X-ray microscopy, EM  
Machine learning

**Scientific Questions**

Basic brain anatomy and connectivity  
Neurodegenerative disorders:  
  - Alzheimer’s disease  
  - Traumatic brain injury  
  - Chronic fatigue syndrome  
  - MS  
  - Epilepsy  
Publications at http://med.stanford.edu/zeinehlab/publications.html

**Who should apply**

Hard working applicants that are smart, motivated, and interested to learn about research design and methods while working on collaborative, interdisciplinary projects and writing papers. Computer, MRI, and image-processing know-how a must (MATLAB, UNIX, FSL, etc.). Experience with histology techniques a definite plus. Good writing skills and excellent references required.

**Contact**

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http://med.stanford.edu/zeinehlab.html