Postdoctoral Position in Metabolic Neuroimaging Research

Postdoctoral research fellowship is available in the Advanced Imaging Research Center (AIRC) of UT Southwestern Medical Center at Dallas, Texas. Our laboratory has several exciting projects related to 1) the development of novel $^1$H-MRI/$^{13}$C-MRSI tools to elucidate in vivo metabolism of normal and pathological states and 2) the clinical translation of the technology.

Job Description and Candidate Qualification

The position is for imaging studies of cerebral metabolism after traumatic brain injury both in animals and humans. Candidate is expected to (1) develop $^{13}$C MR spectroscopic imaging for the preclinical/clinical studies, (2) perform in vivo experiments, and (3) optimize pulse sequences and reconstruction algorithms for clinical translation. Candidates must have Ph.D. in Electrical Engineering, Bioengineering, Physics, Neuroscience, or relevant fields. Pulse sequence programming (GE, Agilent and/or Philips systems) and strong computer skills (Linux/Unix/MATLAB/C) are highly desirable.

Research Environment

Research clinical MR scanners (GE 3T 750w, Siemens 3T Prisma, and Philips 3T/7T), preclinical MR scanners (3T/7T/9.4T Agilent and Bruker), DNP Polarizers (SPINlab, HyperSense, SpinAligner), chemistry labs and analytical NMR spectroscopy labs are available in the department. There is also opportunity for research collaboration with multidisciplinary experts including clinicians, chemists, biochemists, and imaging scientists.

To be considered for the position, please send your CV and contact information of two references to:

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