Postdoctoral Research Fellow

University of Liverpool, UK

A Postdoctoral Research Associate position is immediately available to develop MR methods for assessing treatment response to novel drugs in preclinical brain tumor models.

The Centre for Pre-Clinical Imaging (CPI) is looking for a dynamic and motivated candidate to work on developing novel MRI/MRS methods of evaluating treatment response in rodent models of brain tumours. The CPI is a designated centre for excellence in the Institute of Translational Medicine at the University of Liverpool. The focus of the group is to develop cutting edge translational imaging and spectroscopic biomarkers for monitoring treatment response in cancer. The group is particularly interested in developing multi-modality image based methods to assess brain tumor metabolism and assessing treatment response. The comprehensive state-of-the-art CPI comprises of a 9.4T Bruker BioSpec AVANCE III horizontal bore magnet with multi-nuclear capabilities for high resolution MRI and MRS, an IVIS Spectrum (Perkin Elmer) for Bioluminescence and Fluorescence imaging, Multi-Spectral Optoacoustic Tomography (MSOT; iThera Medical) and a high frequency Ultrasound Scanner (S-Sharp), with plans for expansion to include Single SPECT and PET imaging capabilities.

You will be involved in maintaining tumour cell lines, development of the rodent tumour model, optimize spectroscopic techniques, kinetic modelling of tumour DCE-MRI data, diffusion tensor imaging and develop other novel imaging methods on the Bruker AVANCE III platform. In addition, you will also have an opportunity to develop multi-modality imaging methods including Optical imaging and photo-acoustic imaging.

Essential criteria include a PhD in biomedical engineering, chemistry or any other relevant field with a proven publication record. Experience with small animal MRI on a Bruker console is highly desirable but not essential. A pre-existing Home Office license to work on animals will certainly be a plus.

For preliminary enquiries and specific application details contact Professor Poptani harish.poptani@liverpool.ac.uk.