Postdoctoral Research Fellow

University of Liverpool, UK

A two-year Postdoctoral Research Associate position is immediately available to develop diffusion and DCE-MRI methods for refining tumour characterisation and assessing treatment response to novel drugs in oral cavity tumours as well as in preclinical tumour models. Funded by a grant from the North West Cancer Center and the University of Liverpool, this position provides an exciting opportunity for the candidate to develop quantitative imaging skills on a 3 T clinical scanner as well as a 9.4 T horizontal bore preclinical scanner.

We are looking for a dynamic and motivated candidate to work on developing novel MRI methods for evaluating treatment response in clinical tumours and preclinical models. The focus of our group is to develop cutting edge translational imaging biomarkers for monitoring treatment response in cancer. The group is particularly interested in developing multi-parametric image-based methods to assess changes in tumour physiology and microenvironment in order to monitor treatment response. Close collaborative research relationships exist between the center for preclinical imaging (CPI) and clinicians/academics within both the Liverpool Head & Neck Centre (LHNC) and The Walton Centre (neurology and neurosurgery).

With a comprehensive state-of-the-art facility, the centre for preclinical imaging (CPI) contains a 9.4 T Bruker BioSpec AVANCE III horizontal bore magnet with multi-nuclear capabilities for high resolution MRI and MRS. CPI has close collaborations with research access to a Siemens 3 T Prisma (University of Liverpool) and a Siemens 3 T Skyra (Walton Centre, Liverpool) along with access to various image processing platforms, such as Amira, NordicIce, LCModel, ITK-Snap and 3D-slicer, which provide a range of opportunities to develop your image processing skills.

You will be involved in development of kinetic modelling of tumour DCE-MRI data, diffusion tensor imaging and develop other novel imaging methods.

Essential criteria include a PhD in biomedical engineering, chemistry or other relevant field with a proven publication record. Experience with operation of the Siemens and Bruker console or of in vivo imaging is highly desirable but not essential.

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