

Post-doctoral position

at

Imagerie moléculaire et thérapies innovantes en Oncologie
EA IMOTION Université de Bordeaux
Case 93, 146 rue Leo Saignat, 33076 Bordeaux

A 2 years post-doctoral position is immediately available at university of Bordeaux to participate to the TARGLIN (Targetting Glioblastoma with Nanoparticles) project supported by FRM (Medical Research Foundation) and Labex TRAIL (Laboratory of Excellence, Translational Research and Advanced Imaging Laboratory)

Job description.

In the frame of a collaborative project between IMOTION (Molecular imaging and innovative therapies in oncology) University of Bordeaux and CRBM, Chemical Biology and Nanotechnology for Therapeutics (CNRS UMR5237) Montpellier, the TARGLIN project aimed to develop peptide-based nanoparticles (PBN) for addressing siRNAs targeting specific gene in glioblastoma and tumor microenvironment in a mouse xenograft model. In vivo imaging will be used to determine peptide-based nanoparticles bio-distribution, specific targeting and tumor growth reduction. In vivo data will be further confirmed up to sub cellular level by histological investigations.

PBN design, synthesis and labelling and in vitro assays will be performed by the Montpellier team, using genetically modified cells lines engineered by the Bordeaux Team. Both in vivo imaging and histological studies will be performed in Bordeaux. The candidate is attempted to participate to the Bordeaux team tasks.

Candidate profile.

A candidate holding a PhD in biology with interest for oncology and in vivo molecular imaging. Strong background are welcome in the following domains: molecular enginery, gene silencing, cell culture and cell transformation, mouse model of cancer, surgery, animals handling and in vivo optical imaging.

The candidate will integrate the IMOTION (head Dr Franck Couillaud) and will work in close collaboration with members of the team enclosing academic researchers and clinicians.

Research facilities.

The research lab IMOTION have all facilities for performing experiments related with the project including a biological laboratory for molecular biology, cell culture, biochemistry and histology. Preferential access to optical imaging platform for bioluminescence, fluorescence reflectance imaging, Fluorescence molecular tomography, fibered confocal microscopy, per operator fluorescence imaging. Multimodal imaging facilities, animal house and surgery room with stereotaxic frame are available on site.

to apply please send CV and application letter to franck.couillaud@u-bordeaux.fr.