Doctoral or postdoctoral position in *in vivo* MRS and MRSI in brain tumors

A position is available at the Center for Neuroimaging Research (CENIR) at the Paris Brain Institute (Institut du Cerveau – ICM, https://institutducerveau.icm.org/en/), France, for a motivated PhD student or a post-doctoral researcher with a strong interest in MRI/MRS applications in brain tumors.

The candidate will work on an ambitious project focusing on the *in vivo characterization of brain tumors by metabolic and microstructural imaging*. Innovative MRS/MRSI and diffusion-weighted MRS methods will be combined with advanced diffusion MRI techniques with the aim to identify non-invasively specific glioma sub-types and to monitor the effect of both standard and novel anti-tumor treatments.

The candidate is expected to already have experience with MRS and, preferably, MRSI techniques and good programming skills. Ideally, the candidate will also have a basic knowledge of diffusion-based MRI methods. He/she will work in a very interdisciplinary environment, in collaboration with MRI/MRS experts at the CENIR, specialists of tumor biology and genetics at the ICM (https://institutducerveau.icm.org/en/team/team-sanson-huillard/), and in tight interaction with the neurosurgery, neuroradiology, neuropathology and neuro-oncology departments of the Pitié-Salpêtrière Hospital.

The ICM is a research institute located within the Pitié-Salpêtrière Hospital, in the center of Paris, France. It comprises 24 research teams working in different fields of neuroscience, with the main goal to achieve a better understanding of the functioning of the normal brain, as well as the pathophysiology of several neurological/neurodegenerative disorders. The CENIR neuroimaging and neurophysiology platform is equipped with two 3 T MRI scanners (Siemens Prisma and Verio), one small-animal 11.7 T Bruker scanner, and EEG and TMS systems. The installation of a 7 T Terra scanner and a new Prisma is planned within the next 1.5 years. The ICM also offers an ideal environment for young researchers with trainings and social exchanges organized by an active student association.

To apply, or for further inquiries about the position, please contact Francesca Branzoli: francesca.branzoli@icm-institute.org