

## NeuroSpin Visit Presentation

October 25, 2016, 17:30 – 20:30

During this visit you will have the opportunity to see a unique imaging facility and research center.



Opened in 2007, NeuroSpin is a research center attached to the French Alternative Energies and Atomic Energy Commission (CEA) of Saclay in the Paris region encompassing 11 000 m<sup>2</sup> of laboratories, offices, technical facilities, and conference areas.

When you arrive, you can see a large gallery which separates the imaging facilities (on the right) and the office area (on the left). From the outside one can see six arches (sinusoid © ) intended to each house an MR system.



The visit starts with the clinical area. Here the volunteers who participate in research are received. Next to the reception, a “mock” MRI system helps explain to volunteers (especially to children) how the examination is done. More than 6600 volunteers came to NeuroSpin since its opening.

NeuroSpin is equipped with a 306-channel MEG system, which records the intensity of magnetic fields produced by neurons when they work. The facility also possesses several EEG systems.

The MRI scanners are located on the “magnets’ street”. The first three arches house clinical scanners: a 3 T (Siemens Trio TIM), a 7 T (Siemens TIM, the first 7 T MRI scanner installed France) and, in 2016, a unique scanner operating at 11.7 T and dedicated to human brain imaging.



*3 T and 7 T whole-body MRI systems*

After the cafeteria, you will enter the preclinical area equipped with three MRI systems: **7 T**, **11.7 T** and **17.2 T** (all manufactured by Bruker).



*7 T, 11,7 T and 17 T preclinical MRI*

For safety purposes, the visit will be done in groups of 15-20 persons. While a few groups visit the facility, the others enjoy the reception or see our new showroom. The reception will take place in the galleria.