



A postdoctoral position in neuropathology (36 months) is available in the UMR Genetic Stability Stem Cells and Radiation, (<https://jacob.cea.fr/drf/ifrancoisjacob/english/Pages/Departments/IRCM/UMR-SGCSR.aspx>) at the CEA center of Fontenay-aux-Roses, which provides an excellent scientific environment with state-of-the art facilities and is located 10 km from the centre of Paris with easy access through public transportation.

Proton beam radiation therapy (PRT) is one of the most promising advances in radiotherapy for pediatric brain tumor because it is supposed to better preserve adjacent healthy tissue. However, PRT can cause significant side effects resulting from neuroinflammation, neural stem and progenitors damage and white matter injury. The project will consist in the identification of the molecular and cellular mechanisms involved in the radiation-induced neurocognitive decline. The ultimate goal is to develop preventive or therapeutic treatments. Studies will utilize a range of molecular, cellular, and histologic approaches in mouse models, including high-resolution 3D fluorescent imaging and single-cell RNA sequencing. This project is supported by INCA and developed in collaboration with teams of the Curie Institute, Orsay.

Candidates should hold a PhD, ideally in neuroscience. A motivation letter, resume, and contacts details for two referees should be sent to Dr François Boussin (francois.boussin@cea.fr).