



Starting beginning of Autumn 2021, a **3-year doctoral position** funded by a Cifre grant of Sanofi is available at the **Centre de Recherche des Cordeliers** in the team "**Functional Genomic of Solid Tumor**" (**FunGeST**) led by Jessica Zucman-Rossi under the direction of Didier Jean.

Malignant pleural mesothelioma (MPM) is an asbestos induced tumor with poor response to treatment, high medical need and a heterogenous biology. TEAD proteins and their upstream HIPPO YAP1 signal pathway are deregulated in the majority of MPM. We are offering a Ph.D. thesis project funded by a Cifre (Convention industrielle de formation par la recherche) grant of Sanofi with the main objective to better understand and characterize the role of TEAD proteins in malignant pleural mesothelioma tumors. Specifically, the project aims at 1. determining the expression and function of the four different TEAD protein family members (TEAD1-TEAD4) in MPM cells and tumor models, 2. identifying which TEAD isoform is the main driver of this tumor type (is it a single TEAD isoform or several TEAD isoforms working together), and 3. understanding the overlap and the redundancy of TEAD family members (i.e. will inhibition of one family member be compensated by another).

The practical work will include mainly cell biology and molecular biology techniques such as studies to determine TEAD expression at the RNA and protein level, TEAD knock down (siRNA, shRNA) and knock out studies (CRISPR) as well as the characterization of phenotypic and functional effects resulting from these genetic perturbations (2D and 3D cell growth assays, apoptosis induction, biomarker modulation). Mining of genomic data will also be part of the project. At the end of the thesis project, an in vivo study in mice is planned, for which we will provide dedicated training.

We are looking for a motivated and curious researcher, willing to drive an exciting Ph.D. project with pro-activity, optimism and rigor. The Ph.D. student will perform the laboratory work in the "Functional genomics of mesothelioma" research group of FunGeST team under the direction of Didier Jean, an Inserm researcher, but will be also closely connected to Sanofi researchers for this Ph.D. thesis collaboration. We are looking for a profile with master's degree in cell or molecular biology, experience with above mentioned cell and molecular assays and fluency in English. A background in Oncology is a plus.

Application: Applicants should send their CV, letter of motivation and name of references to Didier Jean: didier.jean@inserm.fr

Deadline: position available beginning of Autumn 2021, apply as soon as possible