



ANNEXE 1

Entreprises, pour proposer un sujet de thèse soutenue par le dispositif CIFRE, merci de remplir les champs suivants, et d'envoyer le document à : cifre@anrt.asso.fr

Si vous souhaitez ajouter un descriptif plus détaillé de l'offre à votre annonce, merci de le joindre accompagné de ce formulaire.

- **Nom de l'entreprise*** : Sanofi Aventis Recherche & Développement
- **Ville et code postal*** : 13 quai Jules Guesde BP14 94403 Vitry-sur-seine Cedex France
- **Nom du laboratoire académique partenaire (si déjà connu)** : Centre de Recherche des Cordeliers – Inserm UMRS.1138 - Team FunGeST “Functional Genomic of solid Tumors”
- **Numéro de reconnaissance du laboratoire** : ...
- **Thématique de recherche en une phrase(*sans aucun caractère confidentiel*) *** :

Molecular and functional characterization of TEAD family members in malignant pleural mesothelioma

- **Descriptif de la thématique de recherche (*sans aucun caractère confidentiel*) *** : Moléculaire Oncology

• **Descriptif du poste*** : 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 with the main objective to better understand and characterize the role of TEAD proteins in malignant 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 at our INSERM academic partner institution but will be 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.

At Sanofi diversity and inclusion is foundational to how we operate and embedded in our Core Values. We recognize to truly tap into the richness diversity brings we must lead with inclusion and have a workplace where those differences can thrive and be leveraged to empower the lives of our colleagues, patients and customers. We respect and celebrate the diversity of our people, their backgrounds and experiences and provide equal opportunity for all.

As part of its diversity commitment, Sanofi is welcoming and integrating people with disabilities.

- **Date de recrutement*** : Poste à pouvoir pour octobre.
- **Adresse e-mail à laquelle le candidat doit envoyer sa candidature*** :

Iris.Valtingoier@sanofi.com

*champs obligatoires