

Job title : Post-doctoral in Obesity and Type 2 Diabetes

 Contract 24 months  Start : 01/04/2025

 Paris

 Full Time

 PhD

Emploi / Job

Poste
ouvert aux
candidats/
Position
open to
candidates

CDD agents contractuels

Catégorie A B

Corps T AI IE IR
 Chercheur/post-doc
 Doctorant

Emploi-Type [Voir référentiel des métiers de la recherche](#)

Structure d'accueil / Host structure

Responsable/Team leader

The team "Functional pharmacology and pathophysiology of membrane receptors" (PI: R Jockers, co-PI: J Dam), is part of the Institut Cochin located in the center of Paris, 22 rue Méchain – 75014 Paris, France.

The team is composed of approx. 15 international collaborators and has a specific interest in identifying new therapeutic approaches for obesity and type 2 diabetes.

Publications:

- Duquenne M et al., Leptin brain entry via a tanycytic LepR-EGFR shuttle controls lipid metabolism and pancreas function. **Nat Metab.** 2021.
- Gao W et al., Human GLP1R variants affecting GLP1R cell surface expression are associated with impaired glucose control and increased adiposity. **Nat Metab.** 2023.
- Roca-Rivada A. et al., Whole-body deletion of Endospanin 1 protects from obesity-associated deleterious metabolic alterations. **JCI Insight.** 2024.

<https://institutcochin.fr/en/equipes/functional-pharmacology-and-pathophysiology-membrane-receptors>

About the structure

The Institut Cochin is a research center affiliated to INSERM, CNRS, Université Paris Cité, located in the heart of Paris. It has more than 650 members in 33 teams, dedicated to high-level biomedical sciences and assisted by 10 cutting-edge core facilities. www.institutcochin.fr

Directrice/Director Florence Niedergang

Adress 22 rue Méchain 75014 Paris, France

Structure employeur INSERM

Description du poste / Job description

**Post-doc :
Projet/Research
project**

Investigate a novel regulator in obesity :

Obesity, overweight, and type 2 diabetes (T2D) are major public health concerns. Adipose tissue stores excess energy as fat and acts as an endocrine organ, releasing hormones and inflammatory molecules that influence metabolism, appetite, and insulin sensitivity. Our research focuses specifically on the function of G protein-coupled receptors (GPCRs) involved in obesity/diabetes. GPCRs are of significant therapeutic interest because they can be easily targeted by drugs. We are seeking a motivated and talented Postdoctoral Researcher to join a funded project aimed at uncovering the role of a GPCR in obesity and diabetes, using cellular and *in vivo* experimentation (PI: Dr. Julie DAM).

Activities main

- Investigate the mechanisms of action of the novel regulator
- Characterize obesity mouse model of transgenic mice
- Main techniques to be performed by the postdoctoral fellow: cell culture (adipocyte primary culture), western blot, RT-qPCR, cell signaling, immunoprecipitation, *in vivo* metabolic profiling, mitochondrial function analysis, confocal microscopy, histology

**Job
specification(s)
and environment**

- The team is composed of 15 international members

Expertise

- Expertise in cell biology, mammalian cell culture
- Expertise in obesity and type 2 diabetes would be appreciated

Know-how

- Experience in analysis of gene expression by RT-qPCR, detection of protein by western-blot and by immunofluorescence
- Experience in microscopy imaging (confocal)
- Experience in basic mouse experimentation.
- Experience in primary culture of adipocytes would be appreciated

Ability

- Good communication skills in English, orally and written
- Strong organization and scientific rigor skills
- Curiosity and Motivation for scientific projects
- Ability to solve problems
- Team-oriented personality
- Strong analytical skills and experience with data analysis tools

**Experience(s)
required**

- Minimum : PhD experience

Diploma level and training PhD in cell biology, biochemistry, physiology or a related field

Informations Générales

Beginning: 01/05/2025

Duration 24 months
Renewable : OUI/YES NON/NO

Working time Full time - /Part time
Number of hours per week: 38h30
Annual leave and RTT : 44 days (32 days of annual leave and 12 RTT leave days)

Teleworking activities OUI/YES NON/NO

Remuneration Contract workers: from 2 997,20 € gross per month depending on professional experience in equivalent positions

Modalités de candidature/ Modalités de candidature/How to apply

Date limite de candidature
Application deadline 15/02/2025

Pour postuler
To apply Applicants should send their CV, letter of motivation and name of 2 references:
• Dr Julie DAM
• Email : julie.dam@inserm.fr