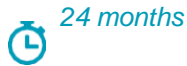


Job offer: Postdoctoral position

Post-doctoral fellowship in Obesity and Type 2 Diabetes



24 months



Start : 03/2025
or later



Paris

Fully funded 2-year Post-doctoral position at the institut Cochin (Paris, France)

Description du poste / Job description

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).

Main Activities

- 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

Expertise

- Experience in cell biology, mammalian cell culture
- | 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.
- | Expertise in primary culture of adipocytes would be appreciated

Skills

- 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

Diploma level

PhD in cell biology, biochemistry, physiology or a related field

Host structure

Team

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 tuncytic 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/equipes/pharmacologie-fonctionnelle-physiopathologie-recepteurs-membranaires>

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 600 members in 41 teams, dedicated to high-level biomedical sciences and assisted by 10 cutting-edge core facilities.

www.institutcochin.fr

Director

Florence Niedergang

Adresse

22 rue Méchain 75014 Paris, France

General Informations

Starting from: As Soon As Possible from 01/03/2025

Duration 24 months, or more

Working time Full time

Salary. Salary adjusted to experience level, according to INSERM references

How to apply

Application Deadline 31/01/2025 Apply As Soon As Possible

To Apply

Candidates should send their CV, letter of motivation and reference letter(s) with contacts to:

Dr Julie DAM

Email : julie.dam@inserm.fr