Offre d'emploi Job offer

Post-doctoral fellowship in Obesity and Type 2 Diabetes



(i) 24 months



Début: 02/2025



Fully funded 2-year Post-doctoral position in the team of Dr. Ralf JOCKERS, at Institute 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 in vitro and in vivo experimentation (PI: Dr. Julie DAM).
Main Activities	Characterize obesity mouse model of transgenic mice Investigate the underlying molecular and cellular mechanisms Main techniques to be performed by the postdoctoral fellow: cell culture (adipocyte primary culture), western blot, RT-qPCR, cell signaling, immunoprecipitation, <i>in vivo</i> metabolic profiling, mitochondrial function analysis, confocal microscopy, histology
Expertise	 Experience in cell biology, mammalian cell culture Experience in analysis of gene expression by qPCR, in detection of
	protein by western-blot and by immunofluorescence analysis of cells and tissues
	Experience in microscopy imaging (confocal)
	Experience in basic mouse experimentation (body weight, i.p. injection and oral administration). Expertise in mouse model of obesity and diabetes would be appreciated.
	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

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



Diploma level





Host structure

Team leader

The team "Functional pharmacology and pathophysiology of membrane receptors", is part of the Institute Cochin located in the center of Paris, 22 rue Méchain – 75014 Paris, France.

Team leader: Dr. Ralf JOCKERS. 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/equipes/pharmacologie-fonctionnelle-physiopathologie-recepteurs-membranaires

About the structure

The Institute 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 01/02/2025

Duration 24 months, or more

Working time Temps plein/Full time

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

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Application 15/12/2024 Deadline

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

Dr Julie DAM

Email: julie.dam@inserm.fr

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To Apply



