



## Postdoctoral research fellow position in innate immunity and cellular metabolism

### Location of the work

*The Mitochondrial Biology and Innate Immunity Lab*

### ImmunoConcept

CNRS UMR5164 – INSERM ERL1303

University of Bordeaux

Website: <https://immunoconcept.cnrs.fr/axes/mitochondrial-biology-and-innate-immunity/>

### Qualifications

Applicants must hold a PhD in biological sciences (preferably in immunology or cell biology), and should have a strong interest in metabolism and infection biology.

Fluency in English (spoken and written) is required. French is a bonus, but not required.

Successful candidates will have a strong background in immunology and cellular biology.

Background in microscopy (confocal and super-resolution) will be well considered.

Further scientific skills should include standard techniques like cell culture, qPCR, immunoblotting, basic molecular biology, or mouse handling. Most importantly, candidates should be curious and ambitious. Applicants should have good communication skills and a passion for scientific thinking and experimental work.

### How to apply

Candidates should send a letter containing a statement of interest, curriculum vitae, and the names of two mentors for reference to [johan.garaude@inserm.fr](mailto:johan.garaude@inserm.fr)

The selection process will include an oral presentation and interview.

Salary will be in accordance with the university of Bordeaux scale, depending on experience.

We offer a renewable one-year contract funded by the French ANR.

**Anticipated starting date:** November-December 2023

### The project

The current project focuses on the innate immune functions of the mitochondrial respiratory chain and mitochondrial metabolism in macrophages. It will involve a number of experimental techniques including mouse models of bacterial infection and functional characterization of primary murine and human cells. Approaches in the lab involve standard immunological, cell biology and biochemical techniques (immunoblotting, ELISA, ELISPOT, reporter assays, microscopy, oxygraphy) as well as metabolomics and NGS approaches.

### The lab

Our group focuses on fundamental aspects of host-pathogen interactions and particularly on the innate immune implications of cellular metabolism and mitochondrial reprogramming. We study how innate immune signals are translated into metabolic adaptations and how genetic mutations affecting mitochondria-associated genes impact immunity. The institute is located in a brand-new building of a campus that gathers the university of Bordeaux the University-Hospital and worldwide renown research institutes (IINS, Magendie institute, MFP, IBGC) in the heart of Bordeaux. We offer excellent scientific training and mentorship, international collaborations and a team-oriented productive work environment.