



Job offer

Postdoctoral researcher in molecular virology : Dynamic of viral and cellular transcriptomes during HIV infection

 36 months

 Start before Oct 2024

 Paris, FRANCE

 PhD

Host structure

Team Team leader

Team « Host-virus Interactions » is part of the Institut Cochin located in the center of Paris, 22 rue Méchain – 75014 Paris, France.

Team leader: Clarisse Berlioz-Torrent and Stéphane Emiliani
Principal investigator: Sarah Gallois-Montbrun

About the structure

The Institut Cochin is a research center affiliated to INSERM, CNRS, Université Paris Cité. The Institut Cochin is composed of 41 teams and 10 core facilities.

The team Host-Virus Interaction is composed of 15 collaborators, including 4 permanent researchers, 3 technical support staff, 3 post-doctoral researchers, 4 doctoral students and 1 M2 student

www.institutcochin.fr

Director

Florence Niedergang

Adresse

22 rue Méchain 75014 Paris, France

Structure employeur

INSERM

Job description

Research project

With over 38 million people infected worldwide, HIV remains a major public health issue. Antiviral therapies are effective in limiting virus replication, but its persistence in viral reservoirs hinders the hope of curing patients. The objective of the project developed by the postdoctoral researcher is to deepen knowledge of the molecular mechanisms which contribute to the regulation of the viral and cellular transcriptomes during viral replication and latency. The research program will be based on techniques in cell biology (cell culture, isolation of T lymphocytes from blood samples), virology (viral production and infections), molecular biology (RT-qPCR, Western blot, immunopurification of complexes...), flow cytometry, imaging (immunofluorescence), as well as sequencing analyses (short and long reads).

Main Activities

- Conduct a research project to understand the dynamic of HIV and cellular transcriptomes during infection: Formulate hypotheses related to the research project within the context of existing literature, design the experimental approach, conduct experiments, process data, and analyze the results.
- Provide regular reports on experimental results to the project supervisor and during laboratory meetings.
- Disseminate and showcase the results (reports, contribution to figure formatting, scientific article writing, participation in conferences).
- Supervision and training of students/Ph.D. candidates.

Job specification(s) and environment

- High throughput sequencing analyses
- Work in BSL2 and BSL3 environment
- Work with blood samples
- Possible variability in working hours

Expertise

- Good understanding of molecular biology, genomic, transcriptomic and preferably specializing in virology.
- Knowledge and expertise in bioinformatic would be a strong asset.
- Proficiency in spoken and written English.

Savoir-faire Know-how

- Skills in experimental laboratory work with the ability to independently plan and execute experiments.
- Previous experience in working in BSL2 environment is required and experience in BSL3 is preferred or a willingness to be trained for work in BSL3 conditions.
- Previous experience in molecular biology, cellular biology, and biochemistry (cloning, western blot, RT-qPCR, isolation and analysis of protein and ribonucleoprotein complexes, gene silencing or editing, siRNA/shRNA/CRISPR-CAS9) is required.
- Computer skills and proficiency in biology software, with a willingness to learn new programs and software as necessary.
- Proficiency in flow cytometry technology and immunofluorescence would be a plus.

Aptitudes Ability

- Organizational skills, ability to prioritize multiple tasks and set and meet deadlines
- Ability to analyze information, write clear and concise research reports, documents and prepare research papers
- Communications skills and ability to work well collaboratively with colleagues from multidisciplinary background.

Experience(s) required

- PhD in molecular virology
- Bioinformatic skills

Diploma level and training

PhD
Virology, molecular biology, transcriptomic, bioinformatic

Informations Générales

Beginning: between June and September 2024

Duration 36 months

Working time Full time - Part time
Number of hours per week: 38h30

Annual leave and Rtt : 44

Teleworking activities OUI/YES NON/NO

Remuneration

Contract workers: from 2997,20 € gross per month depending on professional experience in equivalent positions (to be completed with your HR manager)

The opening position is funded by the ANRS (Agence Nationale de Recherche sur le SIDA et les Hépatites Virales).

Modalités de candidature/ Modalités de candidature/How to apply**Application deadline**

July 2024

To apply

Applicants should send their CV, letter of motivation and name of 2 references:

- Sarah Gallois-Montbrun
- Email : sarah.gallois-montbrun@inserm.fr