



Three years post-doctoral position on the identification and characterization of new cellular factors involved in HIV-1 transcriptome regulation

A post-doctoral position is available in the laboratory of host-virus interactions at the Institut Cochin, Paris. This opening is funded by the ANRS (Agence Nationale de Recherche sur le SIDA et les Hépatites Virales).

Overview:

Alternative Splicing is a key step of HIV-1 replication that generates over 50 different RNA isoforms translated into all the proteins needed for viral particles production. This process is highly regulated during infection and imbalance in the viral transcriptome can have dramatic effects on the production of infectious viral particles. Understanding how this process is regulated is thus the focus of intense interest.

Project:

Alternative splicing is a highly dynamic process and it is becoming increasingly apparent that its regulation is much more complicated than previously anticipated, involving multiple layers of regulation. **The aim of this project is to further elucidate new factors/pathways that modulate the dynamic of HIV-1 transcriptome during its replication.** The project will rely on a large-scale screening (CRISPR-Cas9) and a combination of cellular, molecular and viral approaches, as well as long read-sequencing analyses to identify and characterize novel actors involved in the regulation of HIV-1 alternative splicing and replication.

The position is for a talented and motivated **molecular virologist** to conduct the project autonomously over a period of 3 years. The applicants will have a PhD and are expected to have a strong background in cell biology, virology and molecular biology. Previous experience in cat 3 laboratory would be a plus. The candidate will be able to communicate effectively with scientists from various backgrounds and will be motivated to work in an interdisciplinary team.

Environment:

Team Host-Virus Interactions is part of the department Infection, Immunity, Inflammation of the Institut Cochin located in the center of Paris, 22 rue Méchain – 75014 Paris, France.

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Institut Cochin is one of the biggest biomedical French Research Center located in the center of Paris that provides a multidisciplinary scientific environment and very efficient core-facilities.

Qualifications:

Candidate should be strongly motivate, have excellent technical skills, good communication skills and fluent English. Candidates should also possess a PhD or MD/PhD.

Please send a cover letter describing past research accomplishments and future research interests, CV, and a list of 3 references by email to: sarah.gallois-montbrun@inserm.fr