

Xavier Charpentier
10 rue Raphael Dubois
69622 Villeurbanne Cedex
France

3-years post-doctoral position in molecular microbiology

We are seeking a highly motivated researcher for a 3-years Post-doctoral position. The research topic is related to horizontal gene transfer (HGT) by natural transformation, its variation and relationship with mobile genetic elements. The position is part of research project developed in collaboration with the group of Eduardo Rocha (Institut Pasteur, Paris) and funded by the Agence Nationale de la Recherche for 4 years. Investigated species are the human pathogens *Legionella pneumophila* and *Acinetobacter baumannii*. The selected candidate will conduct her/his research activity within the Horigene group (PI: X Charpentier) at the Centre International de Recherche en Infectiologie in Lyon, France. Information about our research group at <https://horigene.fr>. Start date may be March/April 2021 or soon after.

Your task/missions :

- Scale up a newly-developped high-throughput assay for HGT by natural transformation
- Conduct a large-scale analysis of HGT efficiency across large populations of bacteria
- Unravel mechanism of gene regulation and/or activity of HGT mechanisms
- Ensure frequent exchange of results and ideas with the collaborating partners
- Actively participate in the scientific activities of the research group

Your experience/skills

- Basic microbiology skills, working with BSL2 pathogens
- Biochemistry (protein, DNA, RNA) and molecular biology
- Conventional and high-throughput genetics (Tn-seq)
- An interest in genomic analysis / phylogenetics

Your profile

- PhD with an extensive experience in molecular microbiology
- Open-minded, interested in working with large datasets and strain collections
- Strong publication record
- A post-doctoral experience is a plus

Location

The lab is part of the Centre International de Recherche en Infectiologie (CIRI) in Lyon, France
<http://ciri.inserm.fr/en/>

The CIRI is composed of 22 teams gathered behind one goal: the fight against infectious diseases, the second cause of death worldwide by promoting in-depth conceptual and technological advances through approaches that span from fundamental to clinical/applied research. The key areas of expertise of the CIRI teams are bacteriology, immunology and virology.

Lyon is a vibrant city, the 2nd largest city of France and enjoys a central localization in Europe. It is only 2 hours away from Paris (high-speed train).

How to apply

1. Email contact information and CV to xavier.charpentier@univ-lyon1.fr, subject [Post-doc offer]
- or
2. Twitter DM [@labXC](https://twitter.com/labXC)

The offer will remain valid until the vacancy is filled.