Funded PhD Student / Postdoc openings in 2021 in LP2L Team
3-year positions @ ENS-Lyon on Bat-Virus Interactions & Coevolution

Interaction and coevolution between bat immunity and viruses
CIRI, Ecole Normale Superieure de Lyon, France
Lucie ETIENNE

In the lab, we are interested in better understanding virus-host interactions and co-evolution, and the impact on cross-species transmissions.

Within the framework of the ANR BATantiVIR, we are looking for PhD students and postdocs in cellular and molecular biology, innate immunity, and virology.

Our overall goal is to decipher how the immunity of bats has adapted to long-term and ongoing association with diverse viruses.

In preliminary work, we discovered signatures of genomic and molecular adaptation in bat antiviral defenses. We now aim at understanding the functional implications of these adaptations in bat innate immunity and their impact on viruses. This will include the characterization of novel antiviral mechanisms and cell signaling by innate immune defenses, as well as the viral evasion means and determinants. This project will primarily use mechanistic virus-host studies, guided by evolutionary analyses and concepts, including: molecular virology, cell and molecular biology, genetic manipulation (CRISPR/Cas) in bat and primate cells, next-generation sequencing (genome-wide, RNAseq) and interactomes.

Candidates should have education and/or experience in cell biology, molecular virology, or immunology. Prior experience in evolutionary biology or bioinformatics is a plus, but not a prerequisite. Good communication skills in English is a requirement. No nationality restriction. Starting date is flexible in 2021.

- **For Postdocs**: 2-3 years funded by ANR. Salary upon experience & national grid.
- **For PhD students**: Master-degree students graduating in 2021 are also welcome to apply. 3 years funded by ANR. Thesis supervision: Lucie Etienne. University: ENS-Lyon. Doctoral school: ED340 BMIC (Biologie Moléculaire Intégrative et Cellulaire).
The lab is part of the CIRI, Centre International de Recherche en Infectiologie, supported by INSERM, CNRS, Univ. Lyon and ENS-Lyon, and dedicated to multidisciplinary research in infectious diseases. The Center provides the state-of-the-art facilities necessary to carry out the project (Biosafety level 2 and 3 labs, microscopy, flow cytometry, sequencing facilities, bioinformatic hub…). We are also part of the Lyon-Gerland campus hosting top research centers in basic sciences (IGFL, LBMC, MMSB…), the ENS de Lyon, and the biotech hub.

To apply, please, send in English or in French: a cover letter with a short statement of your research interests, a CV, and the contact details of 2-3 references, to: lucie.etienne@ens-lyon.fr

Application on a rolling basis, before June 2021.

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LP2L: Host pathogen interaction during lentiviral infection
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