

# Université Claude Bernard Lyon 1- Hosting offer for a MSCA Post-doctoral fellowship candidate in Microbiology

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| <b>Host Organisation</b>             | <b>Université Claude Bernard Lyon 1</b>   |
| <b>Department</b>                    | <b>Microbiology</b>   |
| <b>Laboratory</b>                    | <b>Centre International de Recherche en Infectiologie</b>   |
| <b>Website (lab / research team)</b> | <a href="https://ciri.ens-lyon.fr/teams/stapath/projets/tuberculosis">https://ciri.ens-lyon.fr/teams/stapath/projets/tuberculosis</a> |
| <b>Supervisor Contact name</b>       | <b>Oana DUMITRESCU</b>  |
| <b>Supervisor Contact email</b>      | <b>oana.dumitrescu@chu-lyon.fr</b>  |

## Host Organisation

The Université Claude Bernard Lyon 1 welcomes Marie Sklodowska Curie Postdoctoral Fellowships applications !

With 62 laboratories and more than 7000 publications per year, and leading French university in terms of the number of patents filed in collaboration with industry, Lyon 1 contributes to scientific and innovation progress in numerous fields: health, mathematics, IT, physics, chemistry, earth and space sciences, life sciences, etc. Creator of emerging knowledge and new technologies, the University is consolidating its research excellence on a global and international level by developing inter- and multidisciplinary approaches targeting the major challenges facing today society.

## Host research lab/team

The **Centre International de Recherche en Infectiologie (CIRI)** is a major player in infectious disease research in France and worldwide. “Advancing our understanding of infectious diseases to better control them” is the motto of CIRI. The laboratory brings together more than 450 researchers, students, and engineers. It is dedicated to fundamental and translational research in immunology, bacteriology, virology, and epidemiology. CIRI is a major national and international actor, deeply embedded in the local academic, hospital, and industrial ecosystem specialized in the study, detection, and treatment of infectious and/or immune-mediated diseases. CIRI’s research strategy takes into account public health challenges defined by the WHO roadmap which includes major or (re)emerging infectious diseases, such as tuberculosis.

The **Lyon TB study group** is an emergent research group developing a translational research program, in close collaboration with Lyon University Hospitals. We aim at exploring factors associated with tuberculosis (TB) clinical features and with disease progression. We are interested in the genomic characterisation of *M. tuberculosis* (Mtb)

clinical isolates, particularly in the genetic micro-diversity (multiple minor variants) enclosed within clinical Mtb isolates. We have previously shown that this genetic micro-diversity is involved in antibiotic tolerance and intramacrophage persistence. Moreover, we observed that Mtb micro-diversity in patient isolates is strongly correlated with TB-associated severity scores. We are currently seeking to decipher the role and impact of various genetic Mtb determinants on the different clinical presentations of TB.

### **Hosting Offer**

The **Lyon TB study group** offers to host a MSCA Postdoctoral Fellowship candidate (typically a post-doc of less than 8 years research experience since PhD defence), submitting an application to the next MSCA-2026-PF call for proposals (deadline 09<sup>th</sup> of September 2026), interested to work on the following research topic:

- genetic diversity (including micro-diversity) of clinical Mtb isolates
- linking genetic determinants of Mtb with the clinical presentation of TB disease
- exploring the role of Mtb genetic determinants through host-pathogen interaction models

The fellowship could last for 12 to 36 months, depending on the type of Postdoctoral Fellowship.

### **Supervision**

The successful Marie-Curie Post-doctoral fellow will be supervised by Oana Dumitrescu, MD PhD, head of the Lyon TB study group and of the French Regional Reference Laboratory for TB sequencing. Her research interests encompass various aspects of Mtb pathogenesis such as (i) the study of Mtb interaction with the host through patient customized infection models, (ii) innovation in TB laboratory diagnosis, (iii) biomarkers to monitor anti-TB treatment efficacy, (iv) genomic insights of clinical Mtb isolates and molecular mass survey of TB cases through Mtb whole genome sequencing.

### **Application process**

Interested candidates are invited to contact us exclusively by email at [oana.dumitrescu@chu-lyon.fr](mailto:oana.dumitrescu@chu-lyon.fr)

Make sure that you include the reference to this offer in the title of your email. Please attach a CV, a motivation letter, your MSc marks, **as well as a 1 page research proposal**.

### **Professional grant application support:**

Candidates will receive the support of the supervisors, as well as online training from a professional grant application company, and advices from successful applicants, to prepare and submit their application with the CIRI as a host laboratory, to the next MSCA-PF call for proposals.