



1-year fully-funded postdoctoral fellow position

Accumulation dynamics & efficacy of fluoroquinolones against Mycobacterium abscessus

The position

One-year postdoctoral position funded by [Méditerranée Infection Foundation](#) is available in [Dr Stéphane Canaan's group](#) within the [LISM Research Unit](#) (CNRS - Aix-Marseille Université, Marseille, France) as part of a long-term collaborative Microbiology-Chemistry program with the [group of Dr Thierry Durand & Dr Céline Crauste](#) (IBMM, Pôle Recherche Chimie Balard, Université de Montpellier, CNRS, ENSCM, France).

The project

The project will mainly focus on understanding antibiotic penetration, accumulation dynamics and efficacy in the emerging pathogen *Mycobacterium abscessus* using both unlabelled and fluorescently-labelled fluoroquinolones. It will also include the screening of non-cytotoxic lipid-based molecules as drug potentiators against pathogenic mycobacteria. The selected applicant will be hosted in Marseille and will work in close collaboration with Dr Pierre Santucci to decipher fluoroquinolone cellular and mycobacterial PK/PD, mode(s) of action and intrinsic resistance mechanism(s) in *M. abscessus*.

Job responsibilities

The selected applicant is expected to co-lead this research program and actively contribute to different collaborative research projects in the discovery of new potentiators, antibiotic mode(s) of action and resistance mechanisms by combining live quantitative imaging approaches, antibiotic susceptibility profiling techniques and bacterial genetics. The selected applicant will have the opportunity to supervise Master and BTEC students if he/she wants to.

Eligibility & Qualifications

PhD holders from all nationalities (except French) are encouraged to apply. Candidates with French citizenship or any dual nationalities including the French citizenship are not eligible. Candidate must have a doctoral degree (PhD) and a strong track record of productivity with peer-reviewed publications.

Profile

Highly-motivated, curiosity-driven candidates with a background in Molecular Microbiology (bacterial genetics, molecular biology) and/or Pharmacology (Drug Discovery, Medicinal Chemistry, PK/PD) with previous research experience(s) on mycobacteria or antibiotic penetration/mode of action will be given our most careful attention. Excellent organizational, communication and leadership skills are required. Finally, the selected candidate will be supported to apply to additional independent postdoctoral fellowships (inter)national schemes such as *Marie Skłodowska-Curie Actions*, *EMBO*, *FRM*, *ERS*, *CIVIS*, *Région Sud*, *Région Occitanie / Pyrénées-Méditerranée* etc.

To apply

Send a brief cover letter (less than 1 page) explaining your motivations, your CV/resume with the list of publications and the contact details of at least two referees to Dr Pierre Santucci (psantucci@imm.cnrs.fr), Dr Stéphane Canaan (canaan@imm.cnrs.fr) and Dr Céline Crauste (celine.crauste@umontpellier.fr)

Applications are now welcome until October 15th and short-listed candidates are expected to be interviewed late in October with fast notifications of success.

Starting date is expected between January and March 2024 at the latest.

For any additional information, please contact Dr Pierre Santucci (psantucci@imm.cnrs.fr), Dr Stéphane Canaan (canaan@imm.cnrs.fr) or Dr Céline Crauste (celine.crauste@umontpellier.fr).