



Period: 12 months – Financial support: ANR

Start date: **March 1, 2024**

Laboratory: CERMN, Centre d'Etudes et de Recherche sur le Médicament de Normandie, UR 4258

## **An open post-doctoral position in Medicinal Chemistry team at the CERMN at the University of CAEN (France).**

### Background and objectives of the proposal:

The World Health Organization (WHO) designated six 'ESKAPE' pathogens as critical targets for drug discovery. Indeed, these highly virulent and antibiotic resistant bacterial pathogens are the leading cause of nosocomial infections throughout the world. Bacteria have evolved a wide set of mechanisms to resist the inhibitory effect of antibiotics. To combat this, we need new classes of antibiotics, and most importantly, against new targets.

Therefore, the current project aims at designing new antimicrobial molecules targeting trans-translation in multi-resistant pathogenic bacteria. We already identified a very promising new series of compounds capable of specifically inhibiting trans-translation: the postdoctoral fellow will therefore be in charge of chemically pharmacomodulating these scaffolds in order to improve the parameters of activity, selectivity and drugability.

### Missions:

- Design & synthesis of bioactive compounds
- Multiparametric optimization & Interpretation of biological and ADME results (SAR)
- Writing of protocols, reagents ordering
- Preparation/ writing of publications, posters, oral communication
- Participation to shared lab tasks
- Mentoring and supervising students

### Qualification requirements:

- Experience with organic synthesis, with multiparametric optimization
- Good knowledge of medicinal chemistry
- Experience in using modern analytic instrumentation, including running and interpretation of NMR-spectra (1D and 2D) and also Mass-spectrometry
- Experience in specialized usual software and databases and excellent knowledge of Excel, Word, PowerPoint
- Publication writing skills, good command of both oral and written English/French

### Required degree and experience:

- a PhD in organic chemistry or medicinal chemistry
- a postdoc experience in organic or medicinal chemistry would be a plus

Deadline for application **November 30, 2023**

Please send a CV and the name of two references to [patrick.dallemagne@unicaen.fr](mailto:patrick.dallemagne@unicaen.fr) and [anne-sophie.voisin@unicaen.fr](mailto:anne-sophie.voisin@unicaen.fr)