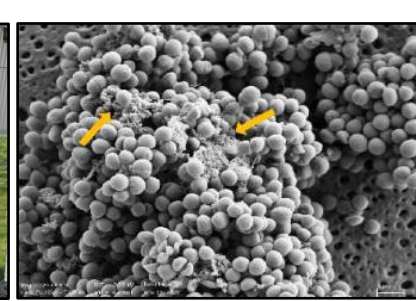




Rennes



The BRM team



Our research

## Postdoc position in antibacterial drug discovery

**Bacterial Regulatory RNAs & Medicine – Inserm U1230 – University of Rennes – France**

### The background

To address the escalating threat of antimicrobial resistance (AMR), our research is focused on non-antibiotic strategies to combat multi-drug resistant (MDR) pathogens. We have successfully developed an inhibitor called 3A11, which specifically targets the copper-transporting P-type ATPase protein CopA. This inhibitor has demonstrated the ability to inhibit the growth of various Gram-positive pathogens, including MDR strains responsible for nosocomial infections.

### The project

We now plan to collect bacterial clinical isolates to assess the bactericidal potential of 3A11 by: (i) investigate the underlying molecular mechanisms of action by transcriptomics and explore the development of resistance through mutation rates, phenotypic variations, genotypes, and fitness costs and by (ii) evaluate the efficacy of 3A11 in various cell types, as well as in murine models that simulate bacterial pathogenesis.

### The postdoc position

The position is available from **July 1<sup>st</sup>, 2023** and is supported by a JPIAMR funding.

The position is funded for **2 years**.

The salary will be based on the remuneration group 6 of the French public service for the Category A researcher.

### Your profile

- A PhD degree in life sciences, microbiology or related fields
- Experience in **bacterial genetics, molecular biology, transcriptomics** required
- Excellent written and spoken English
- Taste for teamwork, curiosity, independence, and decision taker skills
- Experience in bioinformatics and/or with mice are added values but not mandatory

### BRM

BRM (<https://biochpharma.univ-rennes.fr/>) is an Inserm unit directed by Pr Vincent Cattoir and host different working groups focusing on bacterial adaptation and antibiotic resistance. The Unit is organised into 4 interconnected axes which involved (i) understanding sRNA roles in stress response, virulence and antibiotic resistance (ii) investigating host-pathogen evasion mechanisms (iii) deciphering antibiotic recalcitrance and their role in relapse of the infection and (iv) aiming to develop new antimicrobial peptides effective against both Gram-positive and Gram-negative bacteria.

### To apply:

By email, in English, directly to the lead contact of the project **Vincent Cattoir** ([vincent.cattoir@univ-rennes.fr](mailto:vincent.cattoir@univ-rennes.fr)). Your application must include a detailed CV (with publications), the contact of 2 academic references, a summary of your research expertise and work (2 pages max.) and a one-page cover letter. The deadline to apply is **June 1<sup>st</sup>, 2023**.