

Post-doctoral candidate in Medicinal Chemistry (BioCIS, UMR 8076, Université Paris Saclay)

Context:

Cancer, a leading cause of global mortality with 10 million deaths in 2020, demands improved treatments due to the adverse effects of current drugs. Targeted therapies such as Antibody-Drug Conjugates (ADCs) hold promise in mitigating these side effects. Our project aims to develop next-gen ADCs with innovative payloads, enhancing cytotoxicity, stability, and simplicity of synthesis. By optimizing linkers and exploring different Drug-to-Antibody Ratios (DAR), we intend to improve therapeutic outcomes against specific cancers. This research aligns with the global quest for more effective and less toxic cancer treatments, addressing the pressing need for better therapies. The project brings together expertise in various areas, including payload identification, optimization, linker synthesis (CosMIT), bioconjugation, technology development for targeted therapies (McSAF), and *in vivo* efficacy studies (Inserm).

Project:

The postdoctoral position will be hosted at the BioCIS laboratory, UMR 8076, within the Conception et Synthèse de Molécules d'Intérêt Thérapeutique – CoSMIT team. This project is an integral part of our research program dedicated to advancing cancer treatment, with a special focus on developing next-generation ADCs with the potential to revolutionize the treatment of drug-resistant cancers.

The postdoctoral fellow will play a key role in optimizing the project, including linker selection, conducting experimental work, and performing analyses (utilizing NMR, HRMS, HPLC, etc.), as well as contributing to the preparation of scientific reports.

Details:

- **Workplace:** BioCIS, Université Paris Saclay, 17 Avenue des Sciences, 91400 ORSAY
- **Funding:** ANR (Agence Nationale de la Recherche)
- **Contract period:** 12 months (renewable for an additional 12 months)
- **Starting date:** Expected on 01/12/2023
- **Deadline for application:** Before 15 November 2023

Profile:

- PhD in organic/medicinal chemistry
- Highly dedicated, motivated, curious and well-organized
- Experienced in organic chemistry, including multistep synthesis
- Strong analytical skills in working with organic molecules, including expertise in 2D NMR and LC/MS techniques

How to Apply:

1. Send a comprehensive CV detailing your academic and research background.
2. Draft a concise research summary highlighting your key research achievements (2-3 pages).
3. Write a compelling cover letter expressing your interest in the position and explaining how your qualifications align with the research focus.
4. Contact Referees: Provide the contact details of at least two referees with whom you have worked recently.
5. Combine your CV, research summary, cover letter, and referee contact information into a single PDF document.
6. Email the compiled PDF document to Abdallah HAMZE at abdallah.hamze@universite-paris-saclay.fr