



## AVAILABLE POSTDOCTORAL POSITION IN BIO-ORGANIC CHEMISTRY

Our research group, located at [UMR 6014 COBRA-CNRS Rouen](#) (France), is currently looking for a postdoctoral research fellow to work on a “Photosphingo” project.

### Project description:

The concept of photopharmacology is an emerging approach in medicine based on the administration of a photoswitchable drug. In combination with light irradiation, the drug is converted into a bioactive isomer allowing for a spatio-temporal control of the pharmacological activity. Therefore, this concept of photopharmacology is useful for therapeutic applications and a research tool to study and elucidate cellular mechanisms.

The project aims to develop photoswitchable inhibitors of the Sphingosine Kinase 1 (SphK1). This enzyme is a key regulator of the ceramide/sphingosine/sphingosine-1-phosphate (S1P) rheostatic balance and plays an essential role in the genesis, progression, and metastatic processes of cancer.

**Keywords:** Medicinal chemistry, organic chemistry, docking, fluorescence.

**References :** *J. Med. Chem.* **2020**, *63*, 20, 11436–11447; *J. Am. Chem. Soc.* **2014**, *136*, 2178-2191; *Chem. Rev.* **2018**, *118*, 10710-10747; *J. Med. Chem.* **2014**, *57*, 13, 5509-5524.

### Profile:

The candidate should be a skilled organic synthetic chemist. He (she) should have received his PhD diploma in organic chemistry. He (she) must be self-motivated, hard-working, autonomous, have good communication skills, and have a good team spirit. Knowledge of photophysics (fluorescence measurement) will be an asset for the application.

**Starting date:** January 2021

**Duration:** 18 months

**Salary:** ~ 2100 € net / month

**Location:** Laboratory COBRA, UMR 6014 COBRA, IRCOF, 1 rue tesnière, 76821 Mont Saint Aignan, France.

The candidate should send an application by e-mail to Dr. Ludovic Jean [ludovic.jean@univ-rouen.fr](mailto:ludovic.jean@univ-rouen.fr), including a CV, a letter of motivation, a short research summary, a list of publications, and two recommendation letters.