

## Available PhD position Organic/Medicinal Chemistry

A PhD position in collaboration between our research group, located at [UMR 6014 COBRA-CNRS](#), Rouen Normandy University and Pr Pierre-Luc Boudreault head of [Laboratoire de Chimie Médicinale](#) at Université de Sherbrooke (UdS) is now available.

It is now admitted that both naturally derived and synthetically produced heterocycles are of huge importance in diverse fields. Focusing on pharmaceutical and agro-chemistry, more than 67 % of the chemicals contain at least one heterocycle in their structure. This Ph.D. project aims to develop original synthetic pathways to obtain new fluorinated heterocycles by using earth-abundant transition metals in the photoredox catalysis area instead of traditionally used Ru(II)- and Ir(III)-polypyridyl complexes. The pharmacological and biological properties of these heterocycles will be studied at UdS by the candidate himself. The results will guide the development of new drug candidates, mainly as antibacterial and anticancer agents, using computer-aided drug design and structure-activity relationship studies. The Ph.D. student will spend 18 months at COBRA laboratory located at Rouen Normandy University and 18 months at Laboratoire de Chimie Médicinale at UdS. An additional scholarship would be granted to the candidate in order to help him to move from Rouen to Sherbrook

The ideal candidate for this position will be highly motivated, must hold a master degree in organic chemistry/medicinal chemistry and have a background in organic synthesis. Moreover, the candidate should be dedicated, curious, have good communication skills and a good team spirit.

Application should be sent to Dr Thomas Castanheiro ([thomas.castanheiro-matias@univ-rouen.fr](mailto:thomas.castanheiro-matias@univ-rouen.fr)) and Dr Pierre-Luc Boudreault ([Pierre-Luc.Boudreault@USherbrooke.ca](mailto:Pierre-Luc.Boudreault@USherbrooke.ca)) and include:

- A detailed CV including at least two referees, able to be contacted
- A cover letter
- Master or engineer school grades

