



## Post-doctoral position:

### Chemical biology to optimize anti-inflammatory drug (M/F)

**Financial support:** Région Auvergne-Rhône Alpes

**Duration:** 12 months

**Starting date:** Spring-Summer 2022

**Location:** Département de Pharmacochimie Moléculaire (DPM), Université Grenoble Alpes (UGA), UMR 5063, Grenoble, France

#### Project:

Anti-inflammatory drugs are used for many indications such as arthritis, respiratory diseases, multiple sclerosis, psoriasis, and inflammatory bowel disease. Current anti-inflammatory drugs can cause serious side effects such as gastrointestinal, cardiovascular and renal disorders, limiting their therapeutic efficacy and leading to numerous side effects.

The DPM team, in collaboration with a team from the Institute for Advanced Biosciences (IAB) in Grenoble and with the Inovotion company, is developing a new family of anti-inflammatory compounds devoid of *in vitro* toxic effects at this stage. The project is now moving to *in vivo* model stage, and the objective is to optimize the pharmacokinetic characteristics of the best compounds. This development is greatly facilitated by the synthetic approach which is based on the use of a new organocatalysed multicomponent reaction controlling both the diversification and the enantiopurity of the products obtained. This project also aims to develop new approaches involving the implementation of bio-compatible click reactions to improve pharmacodynamic/pharmacokinetic properties in an *in vivo* environment and to elucidate mechanisms of action using fluorescence labeling.

#### Candidate profile:

Applicant must have a strong background in organic synthesis. Additional experiences in the use of click chemistry and fluorescent tags in living media would be appreciated. The successful candidate will be autonomous and rigorous, able to interact with the many partners involved in this project.

#### Deadline of application:

From now until the position is filled

#### How to apply:

a CV with a list of publication, motivation letter and the name and e-mail of two referees will be send to [yung-sing.wong@univ-grenoble-alpes.fr](mailto:yung-sing.wong@univ-grenoble-alpes.fr)