

Laboratoire de Chimie Moléculaire et Thio-organique UMR CNRS 6507 Equipe CAAP (Catalyse et Application) - Groupe BW Ensicaen, 6 Bvd Maréchal Juin 14050 Caen, France

OFFRE DE STAGE POST-DOCTORAL (12 mois) en Chimie Organique

Post-doctoral position (12 months) in organic chemistry available (spring 2018)

Salary: 2600 €/month (before tax)

Deadline to candidate: April 1st

Topic:

Cascade/domino-type innovative synthesis of polycyclic N-heterocycles from ynamides

Polycyclic *N*-heterocycles are a very important class of compounds in medicinal chemistry because of their broad range of biological activities. The goal of the project is to develop innovative step- and atom-economical approaches of these privileged heterocyclic structures via cascade/domino type synthesis. It will rely on ynamide chemistry combined with transition metal catalyzed transformations. The developed methodology will be applied to the total synthesis of selected natural molecules.

For previous contribution on related subjects, see:

(a) F. Nissen, V. Richard, C. Alayrac, B. Witulski, *Chem. Commun.* **2011**, *47*, 6656. (b) C. Alayrac, D. Schollmeyer, B. Witulski, *Chem. Commun.* **2009**, 1464. (c) B. Witulski, C. Alayrac, L. Tevzadze-Saeftel, *Angew. Chem. Int. Ed.* **2003**, *42*, 4257. (d) B. Witulski, C. Alayrac, *Angew. Chem. Int. Ed.* **2002**, *41*, 3281.

Key-words:

Ynamide chemistry - organometallic catalysis - multistep synthesis - total synthesis

Candidate profile:

Motivated, organized, talented researcher with a strong background in organic chemistry and experienced in organometallic chemistry. Independency in research work and ability to communicate easily are the expected qualities of the candidate.

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