



**Post-doctoral research associate position
in organic synthesis and enantioselective catalysis,
starting in April 2018**

A postdoctoral position in organic synthesis and enantioselective catalysis is available for **12 months** at the “Institut des Sciences Moléculaires de Marseille” (iSm2 – UMR CNRS 7313 – Équipe STeRéO), with funding by Aix Marseille Université’s Excellence Initiative.

Keys words: Organic Synthesis, Enantioselective Catalysis, Chirality, Atropisomers, Dearomatization.

Project: Arylic atropisomers are a class of compounds that exist as two enantiomers because of hindered rotation about the single bond to one of their substituents. Currently many research programs aim to prepare and study the interesting properties of these molecules. Based on our experience in the synthesis of arylic atropisomers using a central-to-axial chirality conversion strategy, we now wish to study their behaviour in dearomatization reactions.

Bibliography:

- O. Quinero, C. Bressy, X. Bugaut [Organocatalytic Enantioselective Construction of Polyaromatic Architectures](#), *Angew. Chem. Int. Ed.* **2014**, 53, 10861-10863.
- O. Quinero, M. Jean, N. Vanthuynne, C. Roussel, D. Bonne, T. Constantieux, C. Bressy, X. Bugaut, J. Rodriguez [Combining Organocatalysis with Conversion of Chirality: Atroposelective Hantzsch-Type Synthesis of 4-Arylpyridines](#), *Angew. Chem. Int. Ed.* **2016**, 55, 1401-1405.

Applicant profile: A solid training in organic synthesis is absolutely required for this project, especially abilities to perform reactions under inert conditions and to purify organic compounds using standard techniques (chromatography, recrystallization, distillation), and a good knowledge in structural determination (¹H, ¹³C and 2D NMR). Previous experience in enantioselective catalysis would be appreciated. We will look for a rigorous, motivated and enthusiastic candidate, with good communication skills and willingness to work in close interaction with their colleagues in an international research group. An experience abroad (traineeship, PhD or post-doc) would be a plus.

Salary: 2460 €/month of gross salary, equivalent to 1980 €/month of net salary.

Applications by e-mail (xavier.bugaut@univ-amu.fr) should include:

- a CV with a list of publications and communications;
- a motivation letter;
- the contact of at least two referees.

For details about our research group, see: <http://ism2.univ-amu.fr/en-gb/user/2232>.