Postdoctoral Research Position in Organic Synthesis

Université de Bordeaux
Institut des Sciences Moléculaires – UMR 5255
Groupe « Synthèse »

Aquitaine Region fellowship

“Development of new chiral hypervalent iodine reagents applicable to the concise total synthesis of biologically active natural products”

Description: this postdoctoral position in organic synthesis, funded by the Council of the Aquitaine Region, is opened for a 12-month period, starting in January 2016, in the laboratory of Prof. S. Quideau at the University of Bordeaux (ISM, CNRS-UMR 5255). The project will concern the chemistry of hypervalent iodine (iodane)-mediated asymmetric transformations [1-3] and will be specifically aimed at developing new methodologies for the stereocontrolled formation of all-carbon quaternary centers. The postdoctoral fellow will work in tandem with a doctoral student with whom he will be in charge of the synthesis of novel chiral iodine and iodane compounds for their catalytic and/or stoichiometric utilization in carbon–carbon bond-forming reactions. The postdoctoral fellow will then apply these methodologies within the framework of the synthesis of complex natural products.

Key words: asymmetric synthesis, hypervalent iodine, green “metal-free” reactions, total synthesis.

Application: candidates must hold a doctoral degree in organic chemistry, should have a strong background in asymmetric synthesis, know how to perform multi-step reaction sequences (an experience in natural product synthesis will be appreciated), have the ability to work as part of a team and possess excellent written and oral communication skills.

A detailed curriculum vitae, and 2 letters of recommendation should be sent before December 1st, 2015 to:

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Bibliography:

