

Centro Singular de Investigación en **Química Biolóxica** e **Materiais Moleculares**

Conferencia: Two different strategies for the functionalization of unactivated C(sp3)-H bonds

Olivier Baudoin

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27/11/15

Aula de Seminarios do CIQUS

10:00 h

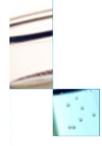
Más información: www.usc.es/ciqus

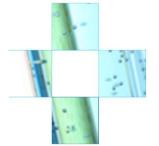


XUNTA DE GALICIA CONSELLERÍA DE CULTURA, EDUCACIÓN E ORDENACIÓN UNIVERSITARIA













Prof. Olivier Baudoin

Curriculum

1992-1995:

Undergraduate studies at Ecole Nationale Supérieure de Chimie de Paris, France. *1995-1998:*

Master and doctoral studies under the supervision of Prof. Jean-Marie Lehn, Collège de France, Paris, France.

1999:

Post-doctoral position under the supervision of Prof. K. C. Nicolaou, Scripps Research Institute, La Jolla, USA.

1999-2006:

Group leader and CNRS "Chargé de Recherche", Institut de Chimie des Substances Naturelles, Gif-sur-Yvette, France.

2006-2015:

Full Professor at Université Claude Bernard Lyon 1, Department of Chemistry and Biochemistry (ICBMS), Villeurbanne, France.

2009-2014:

Junior member of the "Institut Universitaire de France".

From 08.2015:

Full Professor at the University of Basel, Department of Chemistry, Switzerland.

Awards

- Young Professor award from the French Chemical Society, Organic Chemistry Division, 2010.

- CNRS Bronze Medal, 2005.
- Claude Dufour Prize in Prospective organic chemistry, 2007.
- Thieme Journal Prize, 2007.

Two different strategies for the functionalization

of unactivated C(sp3)-H bonds

Abstract. Our recent research has focused on the functionalization of non-activated C(sp³)–H bonds. These methods are catalyzed by palladium(0) complexes and rely on two mechanistically different concepts:

a) intramolecular C–H activation triggered by the oxidative addition of a carbon– halogen bond.

b) migrative cross-couplings involving metal 'chain-walking' along a linear alkyl chain.

Recent developments have included the total synthesis of natural products and APIs, asymmetric catalysis and mechanistic studies.