

## Conferencia: Two different strategies for the functionalization of unactivated C(sp<sup>3</sup>)-H bonds

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Aula de Seminarios do  
CIQUS

10:00 h

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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(sp<sup>3</sup>)-H bonds***

*Abstract.* Our recent research has focused on the functionalization of non-activated C(sp<sup>3</sup>)-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.