O. Baudoin

Olivier Baudoin

Date of birth:	April 5, 1973
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Education:	1995 Undergraduate studies, École Nationale Supérieure de Chimie de Paris 1998 PhD with Prof. Jean-Marie Lehn, Collège de France, Paris 1999 Postdoctoral position with Prof. K. C. Nicolaou, The Scripps Research Institute, La Jolla
Awards:	**2005** CNRS bronze medal; **2009** Junior member, Institut Universitaire de France; **2010** Prix enseignant-chercheur (chimie organique), Société Chimique de France
Current research interests:	Transition-metal-catalyzed C–H functionalization and cross-coupling, and their application to the synthesis of natural products and active ingredients
Hobbies:	Playing the piano and guitar, practicing aikido

The author featured on this page has recently published his **10th article** in *Angewandte Chemie* in the last 10 years: "Synthesis of Strained γ-Lactams by Palladium(0)-Catalyzed C(sp^3)–H Alkenylation and Application to Alkaloid Synthesis": P. M. Holstein, D. Dailler, J. Vantourout, J. Shaya, A. Millet, O. Baudoin, *Angew. Chem. Int. Ed.* **2016**, *55*, 2805; *Angew. Chem.* **2016**, *128*, 2855.

If I could be anyone for a day, I would be Bono.

The biggest challenge facing scientists is being heard by politicians and decision makers.

My favorite painter is Salvador Dalí.

Chemistry is fun because it allows the creation of new matter from known substances.

Young people should study chemistry because it can help them to change the world.

My favorite drink is Bordeaux wine, but I also enjoy a good bottle from another region!

The most significant historic event of the past 100 years was the creation of the European Coal and Steel Community (precursor of the EU) from the ruins of World War II.

My first experiment was the synthesis of vanillin from cloves, which was like turning lead into gold!

I admire scientists who are both smart and humble.

I advise my students to find inspiration in the literature.

The secret of being a successful scientist is to be both scholarly and creative.

My favorite principle is the Curtin–Hammett principle.

The most important thing I learned from my students is patience.

What I appreciate most about my friends is their faithfulness.

My 5 top papers:

1. "The Palladium-Catalyzed C–H Activation of Benzylic *gem*-Dialkyl Groups": O. Baudoin, A. Herrbach, F. Guéritte, *Angew. Chem. Int. Ed.* **2003**, *42*, 5736; *Angew. Chem.* **2003**, *115*, 5914. (Our seminal paper on C_{sp^3}–H activation induced by oxidative addition.)
2. "Synthesis of Benzocyclobutenes by Palladium-Catalyzed C–H Activation of Methyl Groups: Method and Mechanistic Study": M. Chaumontet, R. Piccardi, N. Audic, J. Hitce, J.-L. Peglion, E. Clot, O. Baudoin, *J. Am. Chem. Soc.* **2008**, *130*, 15157. (Our most cited paper in the field; contains important mechanistic insights.)
3. "Palladium-Catalyzed β Arylation of Carboxylic Esters ": A. Renaudat, L. Jean-Gérard, R. Jazzar, C. E. Kefalidis, E. Clot, O. Baudoin, *Angew. Chem. Int. Ed.* **2010**, *49*, 7261; *Angew. Chem.* **2010**, *122*, 7419. (Our first paper on migrative cross-coupling reactions, wherein lithium enolates were used as nucleophiles.)
4. "Ligand-controlled β-selective C(sp^3)–H arylation of *N*-Boc-piperidines": A. Millet, P. Larini, E. Clot, O. Baudoin, *Chem. Sci.* **2013**, *4*, 2241. (A useful extension of the previous work to Negishi couplings, which allows the synthesis of 3-arylpiperidines in a direct manner.)
5. "A General and Scalable Synthesis of Aeruginosin Marine Natural Products Based on Two Strategic C(sp^3)–H Activation Reactions": D. Dailler, G. Danoun, O. Baudoin, *Angew. Chem. Int. Ed.* **2015**, *54*, 4919; *Angew. Chem.* **2015**, *127*, 5001. (A nice application of C_{sp^3}–H activation chemistry to natural-product synthesis.)

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