



Dominique Cahard

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• PERSONAL

Male, born 20th March 1968 (France). Nationality: French

• EXPERIENCE

10/2007 – present : Directeur de Recherche CNRS
10/1996 – 9/2007 : Chargé de Recherche CNRS
2/1996 – 4/1996 : Postdoctoral Fellow with Pr. Tadashi Nakata (RIKEN, Tokyo, Japan)
« Total synthesis of Mycalamide A »
2/1994 – 5/1995 : Postdoctoral Fellow with Pr. Chris McGuigan (School of Pharmacy, Cardiff, Wales)
« Design, synthesis, and biological evaluation of anti-HIV nucleotide prodrugs »

• EDUCATION

2001 : Habilitation à diriger des Recherches
1994 : Ph.D., University of Rouen, France (Under the supervision of Prs Jean Marie Poirier & Pierre Duhamel)
« Novel route to enolate from silyl enol ethers and enol acetates. Reaction with hard and soft electrophiles »

• RESEARCH FIELDS

Asymmetric synthesis – Fluorine Chemistry – Catalysis – Medicinal chemistry

• TEACHING EXPERIENCE

Organofluorine Chemistry (Master courses) – Chemical literature search (Master & PhD courses)

• COLLABORATIONS

Pr Jun-An Ma (Tianjin University, China) – Pr Norio Shibata (Nagoya University, Japan) – Dr Barbara Mohar (National Institute of Chemistry, Ljubljana, Slovenia) – Pr Jean-Luc Renaud (Caen University, France) – Pr Oliver Trapp (Heidelberg, Germany) – Dr Kosuke Kawada (Tosoh F-Tech, Japan) – Dr Jernej Iskra & Pr Peter Krajnc (Maribor University, Slovenia) – Dr Evgenii Kondrashov (Favorsky Institute of Chemistry, Irkutsk, Russia) – Dr Carlo Ballatore (University of California, San Diego, USA) – Pr John Welch (University at Albany, USA)

• BIBLIOMETRICS

I am author of **110** research articles, **4** patents, **12** book chapters, **68** invited lectures

Web of Science[®] : Results found: **110**; Sum of the times cited: **6260**; Average citations per item: **58**; h-index: **37**

Recent Invited lectures

“Two stories of Japanese-French joint research collaboration with academia and industry”

10th Japanese-French Seminar on Fluorine Chemistry (JFFCS-2017), Kanazawa (Japon), 27-29/9/2017

“Synthesis of β -SCF₃ α -Amino Acids and β -SCF₃ Amines by Nucleophilic Trifluoromethylsulfenylation of Cyclic Sulfamides”

253rd ACS National Meeting, San Francisco (USA), 2-6/4/2017

“New approaches in direct introduction of CF₃S and CF₃S(O) motifs”

23rd ACS Winter Fluorine Conference, Clearwater (USA), 15-20/01/2017

“Asymmetric Hydrogen Atom Transfer Reaction of Prostereogenic Trifluoromethylated Compounds”

14th National Meeting on Fluorine Chemistry, Fuzhou (Chine), 19-21/11/2016

“A Journey into Nucleophilic and Electrophilic Trifluoromethylsulfenylations : CF₃S & CF₃S(O)”

South University of Science and Technology of China, Shenzhen (Chine), 22/11/2016

“Enantioselective Transfer Hydrogenation of Prostereogenic Trifluoromethylated Imines, Enones, Ketones and 1,3-Diketones”

Bremen Fluorine Days, Brême (Allemagne), 3-7/07/2016

“A Journey of Discovery in Organofluorine Chemistry”

Tosoh F-Tech, Yamaguchi (Japon), 5/04/2016

“Stereoselective Hydride Transfer Reactions for the Construction of Chiral Trifluoromethylated Molecules”

37th Fluorine Conference of Japan, Osaka (Japon), 30-31/10/2014

Recent Publications

“Synthesis of β - and γ -SCF₃ α -Amino Acids and Amines by Nucleophilic Trifluoromethylthiolation of Cyclic Sulfamides”

J.-L. Zeng, H. Chachignon, J.-A. Ma, D. Cahard

Org. Lett., 19, 1974-1977, 2017

“SelectfluorTM on a PolyHIPE Material as Regenerative and Reusable Polymer-Supported Electrophilic Fluorinating Agent”

K. Kawada, K. Okano, J. Iskra, P. Krajnc, D. Cahard

Adv. Synth. Catal., 359, 584-589, 2017

“Interrupted Reduction of CF₃SO₂Cl Using Tricyclohexylphosphine Allows for Electrophilic Trifluoromethylsulfenylation”

H. Chachignon, D. Cahard

J. Fluorine Chem., 198, 82-88, 2017

“Novel Use of CF₃SO₂Cl for the Metal-Free Electrophilic Trifluoromethylthiolation”

H. Chachignon, M. Maeno, H. Kondo, N. Shibata, D. Cahard

Org. Lett., 18, 2467-2470, 2016

“Stereoarranged CF₃-Substituted 1,3-Diols by Dynamic Kinetic Resolution: Ruthenium(II)-Catalyzed Asymmetric Transfer Hydrogenation”

A. E. Cotman, D. Cahard, B. Mohar

Angew. Chem. Int. Ed., 55, 5294–5298, 2016

“State of the Art in Electrophilic Trifluoromethylthiolating Reagents”

H. Chachignon, D. Cahard

Chinese J. Chem., 34, 445-454, 2016

“Trifluoromethyl Diazomethane CF₃CHN₂ in the Uncatalyzed Cyclopropanation of 3-Arylmethylenebenzofuran-2(3H)-ones”

C.-L. Zhu, J.-A. Ma, D. Cahard

Asian J. Org. Chem., 54, 66-69, 2016