



## Dominique Cahard

Directeur de Recherche DR1 CNRS  
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### • PERSONAL

Male, born 20<sup>th</sup> 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 **112** research articles, **4** patents, **12** book chapters, **71** invited lectures

**Web of Science**<sup>®</sup> : Results found: **112**; Sum of the times cited: **6461**; Average citations per item: **58**; h-index: **38**

### Recent Invited lectures

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

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

“Synthesis of  $\beta$ -SCF<sub>3</sub>  $\alpha$ -Amino Acids and  $\beta$ -SCF<sub>3</sub> Amines by Nucleophilic Trifluoromethylsulfenylation of Cyclic Sulfamides”

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

“New approaches in direct introduction of CF<sub>3</sub>S and CF<sub>3</sub>S(O) motifs”

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

“Asymmetric Hydrogen Atom Transfer Reaction of Prostereogenic Trifluoromethylated Compounds”

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

“A Journey into Nucleophilic and Electrophilic Trifluoromethylsulfenylations : CF<sub>3</sub>S & CF<sub>3</sub>S(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”

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

### Recent Publications

“Diastereoselective Electrophilic Trifluoromethylthiolation of Chiral Oxazolidinones: Access to Enantiopure  $\alpha$ -SCF<sub>3</sub> Alcohols”

H. Chachignon, E.V. Kondrashov, D. Cahard  
**Adv. Synth. Catal.**, 360, 2018 doi:10.1002/adsc.201701474

“Synthesis of  $\beta$ - and  $\gamma$ -SCF<sub>3</sub>  $\alpha$ -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

“Selectfluor<sup>TM</sup> 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

“Novel Use of CF<sub>3</sub>SO<sub>2</sub>Cl for the Metal-Free Electrophilic Trifluoromethylthiolation”

H. Chachignon, M. Maeno, H. Kondo, N. Shibata, D. Cahard  
**Org. Lett.**, 18, 2467-2470, 2016

“Stereoarrayed CF<sub>3</sub>-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 CF<sub>3</sub>CHN<sub>2</sub> 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