

Dr. Lucile Anthore-Dalio

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EDUCATION

- 2014-2016 **Ph.D. in chemistry** under the direction of Pr. S. Zard in the “Laboratoire de synthèse organique”, Ecole Polytechnique (Palaiseau, France)
- 2014 **Diplom of the Ecole Polytechnique**
- 2012-2013 **Master of Science in chemistry**, Eidgenössische Technische Hochschule Zürich (Switzerland)
- 2009-2012 **Engineering degree of the Ecole Polytechnique** (Palaiseau, France)-*Specialization in chemistry*

RESEARCH PROJECTS

- Currently **Postdoctoral** position in **Pr. P. Knochel's group** (LMU, Munich, Germany). “*Synthesis and Reactivity of Organolanthanides*”
- 2014-2017 **PhD thesis** and postdoctoral position in **Pr. S. Zard's group** (Ecole Polytechnique, France). “*A Radical Approach to the Alkylation of Ketones*”
- 2013 **Master thesis** (ETH Zürich, Switzerland) in **Pr. F. Diederich's group** (ETH Zürich, Switzerland). “*Synthesis of potential IspF inhibitors*”
- 2013 Semester project in **Pr. E. Carreira's group** (ETH Zürich, Switzerland). “*Spirocycles: Synthesis of unnatural amino acids*”
- 2010-2011 Collective project of the Ecole Polytechnique in collaboration with the Curie's Institut, Paris (France). “*Cancer and physics: tumor genesis and phase transition*”.

PRIZES AND AWARDS

- 2017 **Prix Dina Surdin 2017**
- 2017 **Humboldt Research Fellowship** for Postdoctoral Researchers
- 2016 Fellowship “**L'Oréal-UNESCO for Women in Science**”
- 2016 Oral Communication's Price (*Journées de Chimie Organique, France*)

SCIENTIFIC PRODUCTION

6 publications (1 JACS, 1 ACIE, 3 OL, 1 ChemMedChem), 1 conference, 6 oral communications, 3 posters

PROFESSIONAL EXPERIENCES

- Apr-Aug 2012 **Sanofi**, Vitry-sur-Seine, France (Five month internship in medicinal chemistry in oncology). “*Immunoconjugates: Development of an assay and synthesis of organophosphorus compounds*”
- Jul-Aug 2010 **MSD Santé Animale**, Igoville, France (Six week internship). “*Optimization and standardization of the creation of packaging*”
- Oct 2009-
Apr 2010 **Charity “L'enfant@l'hôpital”**, Paris, France (Seven month internship, civilian service, a part of the curriculum of Ecole Polytechnique)

LANGUAGES AND OTHER SKILLS

Languages: French (mother tongue), English, German

Teaching: Monitoring of students and interns for their research projects

Organization of conferences: SECO 53, inter-lab young chemists' seminars at the Ecole Polytechnique

Other skills: NMR maintenance, First-aid volunteer

LIST OF PUBLICATIONS

6. A. D. Benischke,[†] L. Anthore-Dalion,[†] G. Berionni, P. Knochel,* *Angew. Chem. Int. Ed.* **2017**, *56*, 16390 – 16394; *Angew. Chem.* **2017**, *129*, 16608 – 16612. Preparation of Functionalized Diaryl- and Diheteroaryl-lanthanum Reagents by Fast Halogen-Lanthanum Exchange.
5. L. Anthore-Dalion,* S.Z. Zard,* *Org. Lett.* **2017**, *19*, 5545 – 5548. Chemoselective Reduction: Xanthates as Traceless Precursors of Polyfunctionalized α,α -Dichloroketones.
4. L. Anthore-Dalion, Q. Liu, S. Z. Zard, *J. Am. Chem. Soc.* **2016**, *138*, 8404 – 8407. A Radical Bidirectional Fragment Coupling Route to Unsymmetrical Ketones.
3. L. Anthore,[†] S. Li, L. V. White,[†] S. Z. Zard, *Org. Lett.* **2015**, *17*, 5320 – 5323. Radical Solution to the Alkylation of the Highly Base-Sensitive 1,1-Dichloroacetone. Application to the Synthesis of *Z*-Alkenoates and *E,E*-Dienoates.
2. J. Thelemann, B. Illarionov, K. Barylyuk, J. Geist, J. Kirchmair, P. Schneider, L. Anthore, K. Root, N. Trapp, A. Bacher, M. Witschel, R. Zenobi, M. Fischer, G. Schneider, F. Diederich, *ChemMedChem* **2015**, *10*, 2090 – 2098. Aryl Bis-Sulfonamide Inhibitors of IspF from *Arabidopsis thaliana* and *Plasmodium falciparum*.
1. L. Anthore, S. Z. Zard, *Org. Lett.* **2015**, *17*, 3058 – 3061. A Convergent Radical Based Route to Trifluoromethyl Ketones and to α,β -Unsaturated Trifluoromethyl Ketones.

LIST OF ORAL COMMUNICATIONS

8. A. D. Benischke, L. Anthore-Dalion, G. Berionni, P. Knochel, *Netzwerktagung der Alexander von Humboldt- Stiftung*, Bielefeld University (Germany), 19/10/2017. Carbon-Metal Bonds: a Useful Tool Towards Molecules Synthesis Application to Rare-Earth Elements. (Oral communication)
7. L. Anthore-Dalion, S. Li, Q. Liu, L. V. White, S. Z. Zard, *invited conference*, Ludwig Maximilians Universität, Munich (Germany), 19/01/2017. A Radical Approach to the Alkylation of Ketones. (Conference)
6. L. Anthore-Dalion, S. Li, Q. Liu, L. V. White, S. Z. Zard, *JCO 2016 (Journées de Chimie Organique)*, Ecole Polytechnique, Palaiseau (France), 07/09/2016. A Radical Approach to the Synthesis of Valuable Ketones. (Oral communication)
5. L. Anthore-Dalion, S. Li, Q. Liu, L. V. White, S. Z. Zard, *14^{èmes} Rencontres de Chimie Organique*, Université Paris 13 (France), 04/05/2016. A Radical Approach to the Synthesis of Valuable Ketones. (Oral communication)
4. L. Anthore-Dalion, S. Li, Q. Liu, L. V. White, S. Z. Zard, *Journée des Jeunes Chercheurs*, Département de Chimie, Ecole Polytechnique, Palaiseau (France), 09/02/2016. A Radical Approach to the Synthesis of Valuable Ketones. (Oral communication)
3. L. Anthore, S. Z. Zard, *Journée de la montagne Sainte-Geneviève*, Institut Curie, Paris (France), 12/06/2015. A Convergent Radical Based Route to Trifluoromethyl Ketones and to α,β -Unsaturated Trifluoromethyl Ketones. (Oral communication)
1. L. Anthore, S. Z. Zard, *Semaine d'Etudes en Chimie Organique*, Morzine (France), 28/05/2015. A Convergent Radical Based Route to Trifluoromethyl Ketones and to α,β -Unsaturated Trifluoromethyl Ketones. (Oral communication)

POSTERS

3. A. D. Benischke, L. Anthore-Dalio, G. Berionni, P. Knochel, *Netzwerktagung der Alexander von Humboldt- Stiftung*, Bielefeld University (Germany), 19/10/2017. Carbon-Metal Bonds: a Useful Tool Towards Molecules Synthesis Application to Rare-Earth Elements.
2. L. Anthore-Dalio, S. Li, Q. Liu, L. V. White, S. Z. Zard, *JCO 2016 (Journées de Chimie Organique)*, Ecole Polytechnique, Palaiseau (France), 07/09/2016. A Radical Approach to the Synthesis of Valuable Ketones.
1. L. Anthore, S. Z. Zard, *Rencontres de Chimie Organique*, Université de Cergy-Pontoise (France), 05/06/2015. A Convergent Radical Based Route to Trifluoromethyl Ketones and to α,β -Unsaturated Trifluoromethyl Ketones. (Poster)