

ROBERTA PROPERZI, Ph.D.

BIOGRAPHICAL DATA

Birth date: June 10, 1987

Citizenship: Italian

CONTACT DETAILS

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I am a passionate scientist, driven by curiosity and learning desire. For more than ten years, I have practiced synthetic organic chemistry with enthusiasm and endurance, towards new targets and the development of new catalytic methods. My research interests span catalysis and the design and implementation of synthetic chemistry tools for extending the frontiers of chemical biology and biomedicine.

RESEARCH EXPERIENCE

January 2015–present

Postdoctoral studies in the group of Prof. Dr. Benjamin List, Department of Homogeneous Catalysis, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany.

- Design and development of asymmetric Brønsted and Lewis acid catalyzed transformations.

January 2013–December 2013

Doctoral studies in the group of Dr. Jeremy Starr, Pfizer Worldwide R&D, Groton (USA).

- Study of a novel propargylic amine *N*-oxides rearrangement towards the one-pot synthesis of heterocycles.
- Design and development of new methods for the macrocyclization of peptides.

February 2011–April 2014

Doctoral studies in the group of Prof. Dr. Enrico Marcantoni, University of Camerino (Italy).

- Preparation of Master Standards and API impurities.
- Design and development of lanthanide-promoted transformations.

January 2010–October 2010

Undergraduate research in the group of Prof. Dr. Enrico Marcantoni, University of Camerino (Italy).

- Synthesis of sphingoid bases and their analogues.

February 2008–July 2008

Undergraduate research in the group of Prof. Dr. Claudio Pettinari, University of Camerino (Italy).

- Synthesis of new photoluminescent copper cubane complexes.

EDUCATION

February 2011–April 2014

Ph.D. in Synthetic Organic Chemistry (Pfizer s.r.l. Fellowship), School of Science and Technologies, University of Camerino, Italy. Thesis: *Synthesis of pharmaceutically active heterocycles and lipid targets: novel rearrangements and methods for carbon-heteroatom bond formation.*

October 2008–October 2010

M.S. in Chemistry and Advanced Chemical Methodologies (110/110 Cum Laude), School of Science and Technologies - Chemistry Division, University of Camerino, Italy.

October 2005–July 2008

B.S. in Chemistry (110/110 Cum Laude), School of Science and technologies - Chemistry Division, University of Camerino, Italy.

FELLOWSHIPS & GRANTS

- Ernst Haage-Preis für Chemie (2020)
- Max-Planck-Gesellschaft Postdoctoral Fellowship (2015–2016)
- Pfizer s.r.l. Doctoral Fellowship (2011–2014)
- Erasmus Programme Grant (University of Seville), University of Camerino (2009–2010)
- Excellence Scholarship (performance-based), University of Camerino (2005–2008)

TEACHING EXPERIENCE

- Teaching Assistant, Lecturer, *Organic Chemistry II – Heterocyclic Chemistry*, University of Camerino
- Supervision, *Master and Bachelor Theses*: L. Buglioni, P. Piermattei, V. Tona, C. Matricardi, V. Carboni, D. Canestrari, G. Lupidi, A. Sganappa, M. Tomassetti.

TECHNICAL SKILLS

- Mastery of common and air-free laboratory techniques for synthetic organic chemistry.
- Knowledge of analytical techniques (GC/HPLC-MS, NMR spectroscopy) and related data interpretation.
- Mastery of data processing and molecular drawing software (MestreNova, ChemOffice, Mercury).

POSTERS AND COMMUNICATIONS

- R. Properzi, P. S. J. Kaib, M. Leutzsch, G. Pupo, R. Mitra, C. K. De, P. R. Schreiner & B. List. *Confined acid catalysts impart stereocontrol onto the non-classical 2-norbornyl cation*. Institute Seminar, 17 Dec. 2019, Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany. **Poster**.
- R. Properzi & B. List. *Confined chiral acids enable stereocontrol over the highly debated 2-norbornyl cation*. 20th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis, 21–25 Jul. 2019, Heidelberg, Germany. **Poster Prize presented by Springer**.
- R. Properzi, M. Di Nicola, M. Glucini, F. Sorana, A. Sganappa, M. Tomassetti & E. Marcantoni. *From simple and natural precursors to elaborate biologically active molecules: The case of (L)-erythro ceramide C6*. XXXV Congress of the Organic Chemistry Division, 9–13 Sept. 2013, Sassari, Italy. **Communication**.
- R. Properzi, M. S. Jadhav, S. Diomedì, F. Sorana & E. Marcantoni. *Influence of Cerium(III) cation on the Wittig Olefination*. X Congress on Organometallic Chemistry, 5–8 Jun. 2012, Padua, Italy. **Poster**.
- R. Properzi, R. Cipolletti, S. Diomedì, M. Di Nicola, M. S. Jadhav, L. Marsili, F. Sorana & E. Marcantoni. *New CeCl₃·7H₂O-CuI cooperation: A way towards small molecules*. 9th Spanish-Italian Symposium on Organic Chemistry, 10–14 Feb. 2012, Tenerife, Spain. **Communication**.
- R. Properzi, R. Cipolletti, S. Diomedì, R. Giovannini, L. Marsili, F. Sorana & E. Marcantoni. *The potentialities of cerium(III) promoted reaction in the synthesis of pharmaceutically relevant small molecules*. 4th International Symposium on Advances in Synthetic and Medicinal Chemistry, 21–25 Aug. 2011, St. Petersburg, Russia. **Poster**.

SPECIALIZED TRAININGS

- Thematic Intensive School on Conservation Science, 17–26 Jun. 2014, Izmit, Turkey.
- 9th International School of Organometallic Chemistry, 30 Aug.–3 Sept. 2013, Camerino, Italy.
- 8th International School of Organometallic Chemistry, 27–31 Aug. 2011, Camerino, Italy.
- Advanced Catalysis and Organometallic Chemistry, 16–28 Aug. 2009, Camerino, Italy.

LANGUAGES

Italian (native)

English (fluent)

Spanish (conversational)

German (basic)