

## PERSONAL INFORMATION

**Gabriele Lupidi**

📍 62100 Macerata (Italy)

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## WORK EXPERIENCE

15/01/2020 →

**Postdoctoral fellow**

University of Camerino, Camerino (Italy)

The research was focused on the synthesis and functionalization of nitro compounds with particular attention to the field of green chemistry, by using natural compounds as catalysts and water as solvent.

01/04/2019–01/12/2019

**Scholarship Holder**

University of Camerino, Camerino (Italy)

The research was focused on the synthesis of polycarbonate as part of a project named "Modification of the packaging polymer by adding a new antioxidant molecule that can be released upon contact with the meat".

04/12/2017–14/12/2017

**Tutor of Organic Chemistry 2 (Laboratory)**

University of Camerino, Camerino (Italy)

25 hours of practical laboratory course of Organic Chemistry 2 for the third year course in Chemistry.

13/02/2017–24/02/2017

**Tutor of Organic Chemistry 1 (Laboratory)**

University of Camerino, Camerino (Italy)

30 hours of practical laboratory course of Organic Chemistry 1 for the second year course in Chemistry.

12/01/2017–21/01/2017

**Tutor of Food Chemistry (Laboratory)**

University of Camerino, Camerino (Italy)

20 hours of practical laboratory course of Food Chemistry for the second year course in Chemistry.

## EDUCATION AND TRAINING

15/01/2018–18/07/2018

**Visiting Ph.D. Student at UPMC**

Université Pierre et Marie Curie, under the guidance of Prof. Giovanni Poli, Paris (France)

The research performed at Université Pierre et Marie Curie (UPMC) is focused in the selective C-H functionalization of furfural and furfural derivatives by directed metallation.

12/2015–03/2019

**PhD Student in Chemical and Pharmaceutical Sciences and Biotechnology at UNICAM**

University of Camerino (Italy), under the guidance of prof. Enrico Marcantoni

The research is focused in three main topics: selective functionalization of cyclodextrins as human receptor mimics, formation of thiazole rings from acyclic precursors and platinum nanoparticles catalyzed hydrogenation reactions.

**Master Degree in Chemistry and Advanced Chemical Methodologies at UNICAM**

University of Camerino, Camerino (Italy)

Grade: 110/110 cum laude.

Main topics covered: Organic Chemistry, Inorganic Chemistry Environmental Chemistry, Physical Methods in Chemistry.

Thesis title: "New synthetic approach to 1,4-asymmetrically functionalized B-cyclodextrins as drug carriers and receptor mimics" under the guidance of Prof. Enrico Marcantoni.

**09/2014–02/2015 Master Degree in Chemistry at IST**

Instituto Superior Técnico, Lisbon (Portugal)

Grade: 18/20

Master degree in Chemistry, obtained within the Double Degree Programme.

Main topics: Medicinal Chemistry, Pharmaceutical Chemistry, Industrial Chemistry, Photochemical Processes.

**10/2009–04/2013 Bachelor in Chemistry at UNICAM**

University of Camerino, Camerino (Italy)

Grade: 110/110 cum laude

Main topics: Analytical Chemistry, Organic Chemistry, Physical Chemistry, Inorganic Chemistry.

Thesis title: "Biologically Active Small Molecules: Eco-sustainable Strategy for the Synthesis of Omega-3" under the guidance of Prof. Enrico Marcantoni

**PERSONAL SKILLS**

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Preliminary English Test (PET) - B1					

 Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills**

- Very good communication and leadership skills gained through my experience in mentoring undergraduate Master and Bachelortrainees.
- Aptitude to adapt in a multicultural environment acquired in my foreign experiences, especially working with people from different countries.
- Aptitude to create a positive and team-oriented environment.
- Good organisational skills due to the independent management of more than one research project simultaneously.

**Job-related skills**

- Mastery of common laboratory equipment and microwave reactors.
- Experience using common purification techniques (chromatography, filtration, distillation, crystallization, etc.), and using "Biotage-Isolera" as purification instrument.
- Good knowledge of analytical techniques such as TLC, GC, GC-MS, HPLC-MS, HPLC with experience in data interpretation.
- Good knowledge in NMR data analysis interpretation for structure elucidation using <sup>1</sup>H-NMR, <sup>13</sup>C-

NMR.

 -Manage independently a research project and clearly communicate the results.
 

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Digital skills - Self-assessment grid

-Good knowledge of different operative systems: Windows, Android.

-Good knowledge of Microsoft Office.

-Good knowledge of professional programs and search engines: SciFinder, Reaxys, ChemOffice, Chemdraw, MestReNova, MestReC.

Driving licence B

 ADDITIONAL INFORMATION
 

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## Posters

- Author "Quaternary Ammonium Salts as Highly Efficient Biocides in the Treatment of Microbial Degradation of Artworks" presented at the V Scientific day of the School of Science and Technology, 08/06/2016 Camerino, Italy.

- Co-author "Synthesis of New Climacostol Analogues: a Natural Molecule Become a Lead Compound" presented at the V Scientific day of the School of Science and Technology, 08/06/2016 Camerino, Italy.

 - Co-author " $\text{CeCl}_3 \cdot 7\text{H}_2\text{O}/\text{NaI}$  as Lewis Acid Catalyst in the Povarov Reaction for the Synthesis of Functionalized Tetrahydroquinolines" resented at the V Scientific day of the School of Science and Technology, 08/06/2016 Camerino, Italy.

- Author "Cerium-trichloride promoted Povarov reaction: an easy and stereocontrolled synthesis of tetrahydroquinolines", presented at the 26th Congress of International Society of Heterocyclic Chemistry, 3-8/9/2017, Regensburg, Germany.

 - Author "Synthesis of Nitro Alcohols by Riboflavin Promoted Tandem Nef-Henry Reactions on Nitroalkanes", presented at the 1<sup>st</sup> Virtual Symposium for Young Organic Chemists 03-03/11/2020.

## Publications

"Bioactivity and Structural Properties of Novel Synthetic Analogues of the Protozoan Toxin Climacostol"

*Toxins* **2019**, 11(1),42. doi:10.3390/toxins11010042

"The Natural Compound Climacostol as a Prodrug Strategy Based on pH Activation for Efficient Delivery of Cytotoxic Small Agents"

*Front. Chem.* **2019**, 28, 463. doi: 10.3389/fchem.2019.00463

 "Catalyst-Free Synthesis of Polysubstituted 5-Acylamino-1,3-Thiazoles via Hantzsch Cyclization of  $\alpha$ -Chloroglycinates"

*Molecules* **2019**, 24(21), 3846. doi: 10.3390/molecules24213846

"Synthesis of Nitro Alcohols by Riboflavin Promoted Tandem Nef-Henry Reactions on Nitroalkanes"

*Adv. Synth. Catal.* 10.1002/adsc.202001344