

PERSONAL INFORMATION

Agnese D'Agostino



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🗣 Agnese D'Agostino

WORK EXPERIENCE

01/11/2016–Present

Post Doctoral Researcher

University of Pavia, Pavia (Italy)

Department of Chemistry

InLab-Inorganic Nanochemistry Laboratory Viale Taramelli 12, 27100 Pavia, Italy

Research program: **Synthesis of Silver nanoparticles with biopolymers and their application for antibacterial and wound healing activities**

Supervisor: Professor Piersandro Pallavicini

EDUCATION AND TRAINING

01/11/2013–31/10/2016

PhD Student at the Doctoral School in Chemical and Pharmaceutical Sciences

University of Pavia, Pavia (Italy)

Department of Chemistry

InLab-Inorganic Nanochemistry Laboratory Viale Taramelli 12 27100 Pavia, Italy

Research Program: "**Silver Nanoparticles for Antibacterial and Pharmaceutical Applications**"

Supervisor: Professor Angelo Taglietti

01/04/2016–31/05/2016

Visiting Research

Queen's University, Belfast (United Kingdom)

Faculty of Pharmacy

University Road, Belfast, BT7 1NN, Northern Ireland, United Kingdom

Research programme "**Synthesis of antimicrobial peptide (AMP), evaluation of antimicrobial activity of silver nanoparticles, AgNPs, to Gram(+) and Gram (-) bacteria, evaluation of antimicrobial activity of AgNPs mixed with AMP**"

Supervisor: Professor Garry Laverty

01/10/2010–13/12/2012

Master's degree in Chemistry-graduated with 110/110

University of Pavia, Pavia (Italy)

Thesis Title: "**Antibacterial Surfaces: Self Assembled Monolayers of Silver Nanoparticles on glass surfaces functionalized with ammine**"

Supervisor: Professor Angelo Taglietti

01/10/2007–30/09/2010

Bachelor's degree in Chemistry-graduated with 106/110

University of Pavia, Pavia (Italy)

Thesis Title: **“Fluorescent sensors for anion and amino acids”**

Supervisor: Professor Luigi Fabbrizzi

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
First Certificate in English					

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

Good communication skills gained through my experience at international conferences:

- 1) International Symposium of Metal complexes (ISMEC), 6-8 June 2014 Pavia, Italy
 Poster **“Antibacterial Surfaces based on a dioxotetramino Cu(II) complex”**
- 2) XII National Congress of Supramolecular Chemistry, 27-30 September 2015, Giardini Naxos (ME), Italy
 Oral presentation **“Growing silver nanodisks on glass chips: characterization and applications”**
- 3) Nanomedicine Symposium 2016, 18 November 2016, University of Milano Bicocca, Italy
 Poster **“Bulk surfaces with cooperative antibacterial effects: exploiting Near-IR photo-thermal action and Ag⁺ release from nano-objects”**

Good communication skills and contact skills with students gained through my didactics experience:

- 1) Laboratory activities for students attending the course of “Laboratory of Inorganic Chemistry III”, Master’s degree in Chemistry, University of Pavia (A.A. 2017-2018)
- 2) Laboratory activities for students attending the course “Inorganic Chemistry”, Bachelor’s degree in Biology, University of Pavia (A.A. 2017 - 2018)
- 3) Laboratory activities for students attending the course “Laboratory of Inorganic Chemistry II”, Bachelor’s degree in Chemistry, University of Pavia (A.A. 2016-2017)
- 4) Laboratory activities for students attending the course “Laboratory of Inorganic Chemistry III”, Master’s degree in Chemistry, University of Pavia (A.A. 2016/2017)
- 5) Exercises for students attending the course of “Inorganic Chemistry”, Master’s Degree in Pharmacy, University of Pavia (A.A. 2016 - 2017)

Good teaching and training skills gained as correlator of Master’s students during their thesis internships:

- 1) Master’s degree in Chemistry (University of Pavia-A.A. 2014-2015) of Roberto Desando
 Thesis title **“Glass surfaces functionalized with silver nanoplates: synthesis, characterizations, photothermal and antibacterial applications”**
 Supervisor: Professor Taglietti Angelo
- 2) Master’s degree in Chemistry (University of Pavia-A.A. 2014-2015) of Serena Curtosi

Thesis Title “ **Green synthesis of antibacterial silver nanoparticles for wound healing**”

Organisational / managerial skills Good organizational skills derived from both the experimental planning and the collaboration with other research groups

Job-related skills

- 1) Fully competent in the use of UV-Vis spectrophotometer, Dynamic Light Scattering, contact angle and set-up for photothermal experiments
- 2) Excellent knowledge of wet synthesis of isotropic and anisotropic metallic nanoparticles (silver, gold and iron)
- 3) Excellent knowledge of grafting of metallic nanoparticles on properly functionalized bulk surfaces
- 3) Excellent knowledge of green synthesis of silver nanoparticles
- 4) Knowledge of the main techniques of characterization of metallic nanoparticles and functionalized glass samples

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

- 1) Good knowledge of Windows operating system
- 2) Good knowledge of Microsoft Office (Word, Excel and PowerPoint)
- 3) Good knowledge of the main Internet Browsers
- 4) Good knowledge of the software Sigmaplot, Image J and ChemDraw