



Alessio Regni

WORK EXPERIENCE

01/04/2022 – 31/03/2023 Berkeley, United States

VISITING SCHOLAR RESEARCHER UNIVERSITY OF CALIFORNIA, BERKELEY, SARPONG'S RESEARCH GROUP

Synthetic organic chemistry. Focus on total synthesis of *Daphniphyllum* alkaloid natural products, such as Daphenylline, based on a dearomative ring-expansion strategy

01/07/2019 – 30/09/2019 Manchester, United Kingdom

VISITING SCHOLAR RESEARCHER UNIVERSITY OF MANCHESTER, LEONORI'S RESEARCH GROUP

Development of a new X-atom transfer strategy for C-centered radical formation and scope evaluation

EDUCATION AND TRAINING

01/11/2020 – 31/01/2024 Urbino, Italy

PH. D. STUDENT University of Urbino, Piersanti's research group

Enantiopure synthesis based on cross-coupling and photoredox catalysis, the study of the biosynthetic pathway and biological evaluation of enantiopure Ergot Alkaloids

Website <https://www.uniurb.it> | **Field of study** Organic chemistry

01/08/2017 – 28/02/2018 Besançon, France

ERSMUS+ University of Besançon

Study of biological and chemical aspects in synthesis, toxicological, and Pharmacodynamics in drug discovery

Website <https://www.univ-fcomte.fr> | **Field of study** Pharmacy

01/09/2015 – 03/07/2020 Urbino, Italy

MASTER DEGREE IN MEDICINAL CHEMISTRY (CHIMICA E TECNOLOGIE FARMACEUTICHE)

University of Urbino

Study of all aspects of the development of a new drug, starting from the synthesis of hit and lead, to the delivery in a pharmacy and treatment of a patient. **Specialization:** Organic, inorganic, and Medicinal chemistry, Pharmacodynamic, Pharmacokinetic, Biology, Physiology, Molecular Biology, Pharmacy, and drugs administration (habilitated to work in a pharmacy as a pharmacist)

Website <https://www.uniurb.it> | **Final grade** 110/110 Cum laude

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Mastrenova | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Google (Google Drive, Google Docs, Google Slides, Google Sheets, Google Meets, Google Trends) | Good listener and communicator | Ability to work effectively and efficiently under pressure | Video Conferencing (Zoom, Teams, Skype, Webex) - Advanced | Pacchetto Apple | Team-work oriented | Creativity and Attention to Detail. | Ability to work in a team and autonomously | Hard working, arranged, responsible | Browsing the Internet (experienced) | Social Media including Facebook, WhatsApp and Twitter | Good Communication and Writing Skills | Able to adapt to new situations and system. | Research and analytical skills | Organizational and planning skills | Good organizational and team work coordination skills | Social Media / Social Network | Avodagro | IQmol | Molecule editor ChemDraw | Waters-MassLynx | BrukerTopSpin | Open lab Agilent Software | LC-MS | Chromatography [TLC, PC, Column] | NMR, UV-Visible, FT-IR, spectroscopies, GC-MS, HPLC, and MALDI-TOF MS.

ADDITIONAL INFORMATION

PUBLICATIONS

Aminoalkyl radicals as halogen-atom transfer agents for activation of alkyl and aryl halide - 2020

T Constantin, M Zanini, A Regni, NS Sheikh, F Juliá, D Leonori

Concise catalytic asymmetric synthesis of (R)-4-amino Uhle's ketone - 2021

F Bartoccini, A Regni, M Retini, G Piersanti

Asymmetric Total Synthesis of All Rugulovasine Stereoisomers and Preliminary Evaluation of Their Biological Properties

- 2022

F Bartoccini, A Regni, M Retini, G Piersanti

Photoredox catalysis enabling decarboxylative radical cyclization of γ , γ -dimethylallyltryptophan (DMAT) derivatives: formal synthesis of 6, 7-secoagroclavine

- 2023

A Regni, F Bartoccini, G Piersanti

Navigating Excess Complexity: Total Synthesis of Daphenylline - 2024

B. A. Wright, A. Regni, N. Chaisan, R. Sarpong

CONFERENCES AND SEMINARS

05/06/2023 - 05/06/2023 - Bologna

C-3 day Winner best poster prize with "ALKALOIDS SYNTHESIS AND BIOSYNTHETIC UNDERSTANDING: CHANOCLAVINE I AND DAPHENYLLINE"

18/06/2023 - 22/06/2023 - Gargnano

"ISOS" - "Attilio Corbella" International Summer School on Summer school Organic Synthesis: Short oral communication "FORMAL SYNTHESIS OF CHANOCLAVINE I AND BIOLOGICAL UNDERSTANDING"

02/07/2023 – 06/07/2023 – Urbino

European School of Medicinal Chemistry “ESMEC” Short oral communication “TOTAL SYNTHESIS OF ALKALOIDS: DIFFERENT STRATEGIES”

DRIVING LICENCE

Driving Licence: B1