

Luca Svolacchia

PhD candidate with a **polyhedral background** in between **research** and **quality assurance**. Passionate about drug science with a fervent interest in engaging in quality assurance processes, I gained **over 4 years of international experience** in the field of **medicinal chemistry**. I am always **enthusiastic** to learn and undertake new challenges, willing to provide my colleagues with my own **energy** and **professional knowledge**.

Education

10/2021 - current

University of Bonn, Pharmaceutical Institute, Germany

Ph.D. Candidate in Drug Science

- **Expected:** December 2024;
- **Supervisor:** Prof. Dr. Christa E. Müller;
- **Medicinal chemistry:** design and synthesis of **P2X2 selective antagonists**. Analysis of structure-activity relationships (**SARs**), optimization of pharmacokinetic properties (**ADME parameters**), development of **molecular probes** (e.g. fluorescent-labeled compounds);
- **Routine techniques:** solution and parallel synthesis, **microwave chemistry**, preparative **HPLC**, **flash chromatography**, **NMR**, (T)LC-MS, and **HRMS** analysis;
- **International working environment** and strong **interaction with biology section**;
- **Teaching experience:** taught **Instrumental Analysis** (2nd year in Pharmacy, 2022) and **medicinal chemistry lab** (bachelor degree, 3rd year, 2nd semester in molecular biomedicine, 2022 - current).

03/2021 – 09/2021

University of Bonn, Pharmaceutical Institute, Germany

Postgraduate Internship

- **Supervisor Prof. Dr. Christa E. Müller;**
- **Medicinal chemistry:** multi-step synthesis in **nucleotides chemistry (CD39 inhibitors)**;
- Purification *via* preparative HPLC and analysis *via* modern spectroscopic methods (1D- and 2D-NMR, LC/MS).

09/2015 – 02/2021

University of Florence, Italy

Degree in Pharmaceutical Chemistry and Technology (Single cycle master degree)

- **With honors** (110/110 cum laude);
- **Thesis:** “New amino-3,5-dicyanopyridines as potential multitarget agents for the treatment of glaucoma”;
- **Chemical, pharmacological, technological and regulative knowledge** and competence required to work with the **design, development, manufacture, testing and commercialization of drugs and health products**.

06/2019 –09/2019

Private pharmacy, Panzano in Chianti, Florence, Italy

Pharmacy Internship

- Curricular internship (**900 hours**);
- **Participation in pharmacy activities** (e.g. **organization and management, preparing medicines in a pharmacy, customer education about health prevention**).

Contact

Phone
omissis

Email
omissis

Personal info

Born in omissis

Address
omissis

Language

English (Proficient)

German (Basic)

Italian (Mother tongue)

Awards

- **PhD Scholarship** (02/2022-02/2024) **Kekulé Fellowship** - German Chemical Industry Fund
- **Scholarship Program Exchange in Eureka (CA), US** (2014, 6 months) during highschool

Certifications

- **Licensed pharmacist in EU** (2022)
- **Register of Evaluation Expert Pool** – ANVUR (Italian Quality Assurance Agency for Higher Education)
- **Register of Quality Assurance Student Experts Pool** – ESU (European Student’s Union)

Computer Skills

- Good command of Microsoft Office Tools (**Word**, **Excel**, **PowerPoint**)
- Good knowledge of visualizing, drawing and spectra analysis software (**Chimera**, **ChemDraw®**, **TopSpin®**, **DS Viewer Pro**)
- Basic knowledge of **GraphPad Prism** and **Instant JChem**
- Good knowledge of **bibliographic database** (**Reaxys**, **SciFinder**, **PubMed**)

Elective courses

- **Drug design and synthesis** (1 week): advanced knowledge of main strategies of drug design (2020)
- **Molecular modelling in pharmaceutical chemistry** (3 days): practical knowledge of visualizing, drawing and spectra analysis software (2021)

Institutional roles

- **Student representative** at **University of Florence** (2017-2020) in:
- Study program board
- AQ body in study program board
- Joint Teaching Staff-Student Committee
- School of human health science
- Department Council

Congress

- **ACS Publications Symposium: Biological and Medicinal Chemistry**. Bonn, March 6-8, 2023. Organization committee.
- **Summer School on Drug Design** University of Vienna (2023)

Work experience

07/2023 – current

ESU (European Student's Union), Brussels, Belgium

Member of Quality Assurance Student Expert Pool

- On-call review applications for program accreditation in high education.

07/2019 – current

ANVUR (Italian Quality Assurance Agency for Higher Education), Rome, Italy

Member of Quality Assurance Evaluation Expert Pool

The following on-call activities were performed:

- **Initial accreditation** of new universities and programs (desk analysis);
- **Periodic accreditation** of universities and their programs (desk analysis and on-site visit).

Both procedures include **analysis** of **university self-assessment**, **preliminary evaluation** forms and **final evaluation** forms submission.

10/2019 – 10/2021

University of Florence, Italy

Academic Tutor

- **Monitoring and assisting students' performance** in academic environments.

Academic service

02/2020 – 03/2021

University of Florence, Italy

Member of the Academic Senate

- **Main tasks** address the following activities: **advice formulation** and **compulsory counsel** about **education** and **student services**; **university guidelines** approval about education and research; **compulsory counsel** of **financial statements**.

05/2017 – 05/2019

University of Florence, Italy

University Evaluation Board

Quality Assurance body responsible for the assessment of:

- **Adequacy** and **effectiveness** of the **QA system**;
- **Monitoring** the systematic and widespread application in the relevant areas of the **qualitative** and **quantitative criteria** and **indicators** for evaluation (**internal audit**);
- **Appropriateness** of the **self-assessment process** of **study programs** and **departments**.

List of publication

- Tahoun, M.; Engeser, M.; Svolacchia, L.; Sander, P.M.; Müller, C.E. Molecular taphonomy of heme: chemical degradation of hemin under presumed fossilization conditions. *Molecules* **2023**, *28*, 4887.

Poster session

- Participation to SFB 1328 retreat with “Deaza-AMP derivatives and analogs — new potent CD39 inhibitors”– Poster Session (2021).