



Francesco Brenzini Biagioni

● EDUCATION AND TRAINING

02/11/2023 – CURRENT Rouen, France

COTUTELLE PHD IN CHEMISTRY XL-Chem cotutelle PhD between University of Rouen Normardie and University of Florence

Thesis Synthesis of 5-member heteroamatics containing peptide backbones: pro and cons of structural constraints induced by amide bond surrogates.

20/10/2021 – 19/10/2023 Florence, Italy

MASTER'S DEGREE IN CHEMICAL SCIENCE, CURRICULUM: SYNTHESIS, STRUCTURE AND PROPERTIES OF ORGANIC COMPOUNDS 110/110 University of Florence

Final grade 110/110 |

Thesis Synthesis of a dual-drug based on the antibacterial peptide lugdunin functionalized with the Carbonic Anhydrase sulfonamide inhibitor acetazolamide

20/09/2017 – 21/10/2021 Florence, Italy

BACHELOR DEGREE IN CHEMISTRY University of Florence

Final grade 101/110 |

Thesis Synthesis of triazole-based compounds as carbonic anhydrase inhibitors. Study of the catalytic effects of copper ferrite in CuAAC reactions.

● PUBLICATIONS

2025

Studies on Azasugar-based sulfonamides: a new class of Carbonic Anhydrase inhibitors

Pratesi, D.; Brenzini, B. F.; Matassini, C.; Cardona, F.; Angeli, A.; Bonardi, A.; Gratteri, P.; Supuran, T. C.; Goti, A. *Bioorganic Chemistry* **2025**, 164, 108857. <https://doi.org/10.1016/j.bioorg.2025.108857>

2024

Synthesis of 5-member heteroaromatics containing peptide backbones: pro and cons of structural constraints induced by amide bond surrogates.

Brenzini, B. F.; Layec, C.; Porte, K.; Renard, P. Y.; Papini, A. M.
37th European Peptide Symposium and 17th International Peptide Symposium, Florence (Italy)
Poster communication P1.268 (pag.228)
<https://doi.org/10.17952/37EPS.2024.P1268>

2024

Synthesis, characterization and biological activity evaluation of a dual-drug based on the antibacterial peptide lugdunin functionalized with the Carbonic Anhydrase sulfonamide inhibitor acetazolamide.

Quagliata, M.; Brenzini, B. F.; Giovannuzzi, S.; De Luca, V.; Capasso, C.; Nocentini, A.; Supuran, C. T.; Rovero, P.; Papini, A. M.
37th European Peptide Symposium and 17th International Peptide Symposium, Florence (Italy)

● **WORK EXPERIENCE**

TEACHING ASSISTANT - BLENDED EXECUTIVE PROGRAM (BEP) “SUSTAINABLE BUSINESS FOR NEW CHALLENGES” – DEPARTMENT OF ECONOMICS AND BUSINESS SCIENCES, UNIVERSITY OF FLORENCE – 01/12/2025 – 28/02/2026

SHARE_AFRICA Project, promoted by Italian Higher Education with Africa (IHEA) Foundation
Provided academic and organizational support to participants of an international blended executive programme, facilitating online and on-site activities (Tunis, Tunisia) and fostering Italy-Africa academic cooperation in sustainable business and science diplomacy.

CURRICULAR INTERNSHIP MASTER'S DEGREE – UNIVERSITY OF FLORENCE – 03/2023 – 10/2023

- Solid phase peptide synthesis
- Purification and characterisation of linear and cyclic peptide
- Antibacterial dual-drug

CURRICULAR INTERNSHIP BACHELOR'S DEGREE – UNIVERSITY OF FLORENCE – 03/2021 – 06/2021

- Azasugar-based sulfonamides synthesis
- Carbonic Anhydrase
- Synthesis, purification and characterisation of organic molecules

EVENT CATERING ASSISTANT – DELIZIA RICEVIMENTI – 2018 – 2024 – FIRENZE, ITALY

● **LANGUAGE SKILLS**

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH - FLUENT	B2	B2	B2	B2	B2

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

● **TECHNICAL SKILLS**

Green synthesis, purification and characterizzation of linear and cyclic peptides

Antibacterial peptide

Click chemistry

● **CONFERENCES**

25/08/2024 – 29/08/2024

37th European Peptide Symposium and 14th Intenational Peptide symposium

Organizing committee member

30/08/2024 – 31/08/2024

37th European Peptide Symposium and 14th Intenational Peptide symposium workshops

- **MEMBERSHIP**

Member of Italian Peptide Society (ItPS)

Member of European Peptide Society (EPS)

- **INTERNATIONAL SCIENTIFIC MOBILITY**

11/2023 – 04/2025

University of Rouen Normandie, where I began my PhD in Organic Chemistry, focusing on peptidomimetics.

- **SCHOLARSHIPS AND PRIZES**

2024

Winner of Travel Award Grant funded by 37th European Peptide Symposium (EPS) and 14th International Peptide Symposium (IPS) (Florence, Italy).

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