

About me

I am a versatile early-stage researcher in pharmaceutical biotechnology. Due to my multidisciplinary background, my expertise integrates chemistry, biology, and immunology.

I thrive in interdisciplinary environments and actively seek opportunities to collaborate with experts in these scientific fields.

I have an analytical mindset with a problem-solving attitude, and I am successful at managing multiple tasks with consolidated reporting skills.

CONTACTS

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in <https://www.linkedin.com/in/chiara-bellini-1402/>

📍 Florence, IT

Nationality: Italian

Age: 14/02/1994

LANGUAGES

Italian - Native

English – Proficient user

Spanish – Intermediate user

SOFT SKILLS

Communication

Creativity

Problem-solving

Teamwork

Adaptability

Cross-cultural understanding

Report

WORK EXPERIENCE

Research Fellow | 06/2024 – Ongoing | **Interdepartmental Research Unit of Peptide and Protein Chemistry and Biology, Department of NeuroFarBa, University of Florence, Florence (IT)**

- *Development and biological evaluation of peptide-functionalized biomaterials.*

Early-stage Researcher | 09/2020 – 02/2024 | **Peptide-based Vaccines Research Group, Research Centre for Natural Sciences, Budapest (HU)**

- *Design, synthesis, and immunological evaluation of peptide-based vaccines to target *Mycobacterium tuberculosis* infection.*
- *Investigation of antimicrobial lipopeptides against ESKAPE pathogens.*

Visiting researcher | 10/2022 – 12/2022 | **Institute for Infection and Immunity, St. George's University of London, London, (UK)**

- *Ex-vivo antigen recall assay in *Mycobacterium tuberculosis* infected PBMCs.*
- *Investigation of spores and nanoparticles as novel adjuvanted-delivery system for peptide-based vaccines.*

Visiting researcher | 10/2021 – 12/2021 | **Cyclodextrin Research & Development Laboratory, Cyclolab Ltd., Budapest (HU)**

- *Cyclodextrin formulation of antimicrobial and adjuvant lipopeptides.*

Research fellow | 04/2019 – 03/2020 | **Nanobiotechnology Research Group, Dept. of Biomedical Sciences, University of Padova, Padova (IT)**

- *Investigation of polymeric nanoparticles with ROS-scavenging properties.*

ACADEMIC BACKGROUND

2020-2024 – **Ph.D. in Synthetic, Organic, and Biomolecular Chemistry**

Eötvös Loránd University, Budapest (HU)

Awarded with the Marie Curie Fellowship within the frame of BactiVax (anti-Bacterial Innovative Vaccine Training Network) project - European Union's Horizon 2020 research and innovation programme Marie Skłodowska-Curie grant agreement No. 860325.

2016-2018 – **Master's degree in Pharmaceutical Biotechnologies**

University of Padova, Padova (IT) – 110/110 cum laude

2013-2016 – **Bachelor's degree in Biotechnology**

University of Padova, Padova (IT) – 109/110

OUTREACH

Active contribution to several vaccine **advocacy activities**, including the creation of infographics, podcasts, blogs, videos, and newsletters.

Involved in **public engagement events**, such as European Researcher's Night, World Immunization Week, World TB Day, European Biotech Week. Organizer of the "Gender Equality in Science" workshop – Budapest (HU), 13th of September 2023.

CERTIFICATES

FELASA (function A) - Accredited course

ECDL Certificate

B2 First English Certificate (FCE)

INTERNSHIPS

Student Intern | 04/2018 – 12/2018 | Supramolecular Nanosystems and Nanobiotechnology Research Group, Dept. of Chemical and Biomedical Sciences, University of Padova, Padova (IT)

- *Synthesis of poly(disulfide)s polymeric nanoparticles and in vitro investigation of their biocompatibility and antioxidant activity.*

Student Intern | 04/2016 – 09/2016 | Dept. of Pharmaceutical and Pharmacological Sciences, University of Padova, Padova (IT)

- *Study the correlation between autoimmunity and the unbalance of T cells subpopulations in patients affected by thymic diseases.*

PUBLICATIONS

Bellini, C et al. Nanotechnological Approaches to Enhance the Potential of α -Lipoic Acid for Application in the Clinic. *Review article*. *Antioxidants*. **2024**, 13(6), 706.

Bellini, C; Vergara, E; Bencs, F; Fodor, K; Bősze, S; Krivić, D; Bacsa, B; Surguta, S.E; Tóvári, J; Reljic, R; Horvati, K. Design and characterization of a multistage peptide-based vaccine platform to target *Mycobacterium tuberculosis* infection. *Bioconjug. Chem.* **2023**, 34(10), 1738-1753. *Original Research*.

Bellini, C; Antonucci, S; Morillas-Becerril, L; Scarpa, S; Tavano, R; Mancin, F; Di Lisa, F; Papini, E. Nanoparticles Based on Cross-Linked Poly(Lipoic Acid) Protect Macrophages and Cardiomyocytes from Oxidative Stress and Ischemia Reperfusion Injury. *Antioxidants*. **2022**, 11(5), 907. *Original Research*.

Bellini, C; Horváti, K. Recent Advances in the Development of Protein- and Peptide-Based Subunit Vaccines against Tuberculosis. *Cells*. **2020**, 9(12), 2673. *Review article*.

CONFERENCES AND SEMINARS

37th European Peptide Symposium, Florence (IT), 25th August 2024 -31st September 2024 – *Poster presentation*.

BudaVax Summer School, Budapest (HU), 11th – 13th September 2023 – *Oral presentation*.

7th European Cyclodextrin Conference, Budapest (HU), 5th - 8th September 2023 – *Oral presentation*.

19th International Congress of the Hungarian Society for Microbiology, Budapest (HU), 5th - 7th July 2023 – *Award for the Best Young Investigator Oral presentation*.

Annual Peptide Chemistry and Chemical Biology Symposium, Balatonszemes (HU), 8th - 11th May 2023 – *Oral presentation*.

IschiaVax Summer School, Ischia – Naples (IT) –28th – 30th September 2022 – *Oral presentation*.

36th European Peptide Symposium, Sitges – Barcelona (ES), 28th August 2022 -2nd September 2022 – *Oral presentation in the Young Investigators Mini Symposium*.

Annual Peptide Chemistry and Chemical Biology Symposium, Balatonszemes (HU), 30th May 2022 - 2nd June 2022 – *Poster and oral presentation*.

Synthesis+ Excellence Program of ELTE Seminary, Budapest (HU), 16th September 2021 – *Oral presentation*.

RTG 2154 Seminar “Materials for Brain”, Kiel (DE), 27th - 31st January 2019 – *Oral presentation*.