



## Chiara Bertaso

*Junior Scientist*

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### DETAILS

**Address:** Località Campolongo 5,  
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### LANGUAGES

**Italian:** mother tongue

**English:** B2 First (FCE) Cambridge  
Assessment English (equivalent to  
5.5 – 6.5 IELTS)

### SKILLS

- Molecular biology
- PCR
- SDS-PAGE
- Wester Blotting
- Protein expression and purification
- Bacterial and Yeast culture
- Bacterial and Yeast Transformation
- Yeast two-Hybrid screening
- Combinatorial library production
- Bioinformatic sequence-based analysis
- Knowledge of MS Office programs (Excel, Word, Powerpoint)

### PROFILE

Junior scientist deeply passionate about biotechnology, microbiology, and genetic engineering. During my career, I acquired a strong knowledge of molecular biology and biochemical laboratory techniques, Yeast Two-Hybrid screenings, combinatorial peptide libraries production in yeast, and heterologous protein expression and purification. Basic knowledge of *in silico* structural biology practices and bioinformatic sequence-based analysis.

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### EDUCATION

**Master Degree in Molecular Biotechnology And Bioinformatics (ENG, LM8)** University of Milan – La Statale

OCTOBER 2019 – OCTOBER 2021

**Graduation:** 24 February 2022, **Final grade:** 110/110

**Bachelor Degree in Biotechnologies**

**(ITA, L2)** University of Verona

OCTOBER 2016 – OCTOBER 2019

**Graduation:** 19 November 2019, **Final grade:** 104/110

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### RESEARCH EXPERIENCE

**Junior Scientists, Research Fellow, University of Milan, Department of Biosciences**

APRIL 2022 - PRESENT

**Project title:** Development of peptide aptamers able to counteract grapevine infection by *Plasmopara viticola*.

**Master Thesis Internship, University of Milan, Department of Biosciences**

FEBRUARY 2021 - FEBRUARY 2022

**Project title:** Development and optimization of combinatorial libraries of peptides as biotechnological platforms for drug discovery

**Bachelor Thesis Internship, University of Verona, Department of Biotechnologies**

FEBRUARY 2019 - MAY 2019

**Project title:** Site-directed mutagenesis of the gene US368 XAn11 from *Aspergillus niger* and its heterologous expression in *Pichia pastoris*

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### OTHER ACTIVITIES

Tutor of the course “Patenting and Technology Transfer”(12 hours), **Master Degree in Molecular Biotechnologies and Bioinformatics, University of Milan**, Prof. Maurizio Bettiga and Prof. Davide Ederle

## SOFT SKILLS

- Teamwork
- Critical thinking
- Time management and flexibility
- Stress management
- Can-do attitude

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## RESEARCH PROJECTS

**NoPest: Novel Pesticides For A Sustainable Agriculture (PI: Prof. Paolo Pesaresi) HORIZON2020 – FetOpen**

**Development Of Peptide Aptamers Able To Counteract Grapevines Infection By *Plasmopara Viticola* (PI: Prof. Paolo Pesaresi) AGRO-CHEMICAL COMPANY (undisclosable name)**

**CoronaBuster – A Sustainable Alternative For Fast Anti-Viral Drug Development (PI: Dr. Andrea Tagliani) UNIVERSITY OF MILAN**

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## PUBLICATIONS

**The Cyclic Peptide G4CP2 Enables The Modulation Of Galactose Metabolism In Yeast By Interfering With Gal4 Transcriptional Activity.** Rosa S., Tagliani A., **Bertaso C.**, Tadini L., Gourlay L.J., Feni L., Pellegrino S., Pesaresi P., Masiero S. *FRONTIERS IN MOLECULAR BIOSCIENCES* - ISSN 2296-889X. - 10:(2023), pp. 1-10. [10.3389/fmolb.2023.1017757]

**Synthetic Protein Circuits And Devices Based On Reversible Protein-Protein Interactions: An Overview.** Rosa, S.\*, **Bertaso, C.\***, Pesaresi, P., Masiero, S., & Tagliani, A. (2021). *Life (MDPI)*, 11(11), 1171. (\*equal contribution)

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## CONFERENCES

**11<sup>th</sup> Austrian Peptide Symposium**, Austrian Peptide Community, 1<sup>st</sup> December 2022, Medical University Wien, Wien (AT). **Oral communication:** *Leveraging the biotechnological potential of combinatorial libraries of cyclic peptides toward the agri-tech and pharma markets.*

**1<sup>st</sup> International Conference on Sustainable Agriculture Bio-stimulants and Biopesticides** - Ghent (BE) 20-22 September. **Oral communication:** *CYCLIC: a game-changing library for the isolation of cyclic antimicrobial peptides for sustainable agriculture.*

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## AWARDS

**“Best Talk Award”** at the 1<sup>st</sup> Students Workshop in Plant Biology, 4th of July 2022, Department of Biosciences, University of Milan. **Talk title:** *Development and optimization of combinatorial libraries of peptides and their biotechnological applications.*