

Curriculum Vitae ELENA MIGLIORANZA

Current Position: Third-year Ph.D. student in Biomedical and Neuromotor Sciences at the University of Bologna (DIBINEM, Piazza di Porta San Donato, 2 - 40126 Bologna).

Residential Address: Via XI Febbraio, 39, Quinto di Treviso 31055, Treviso, Italy

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Date of Birth: October 12, 1998

Nationality: Italian

Education

November 2023 - Present : **Ph.D. in Biomedical and Neuromotor Sciences**, University of Bologna

Supervisor: Prof. Chiara Berteotti

October 2020 - March 2023: **Master's Degree in Medical Biotechnology**, University of Bologna

Thesis: *Long-term effects of perinatal exposure to the pesticide Chlorpyrifos in adult mice*

Supervisors: Prof. Chiara Berteotti, Dr. Sara Alvente

Final Grade: 110/110 cum laude

October 2017 - July 2020: **Bachelor's Degree in Biotechnology**, Health specialization, University of Ferrara

Thesis: *Synthesis of antisense oligonucleotides conjugated to ursodeoxycholic acid UDCA as potential therapeutic agents in the treatment of Duchenne Muscular Dystrophy*

Supervisors: Prof. Daniela Perrone, Prof. Elena Marchesi

Final Grade: 100/110

Research Experience

August 2025 - November 2025: Special Research Student, The University of Tokyo, Supervisor: Prof. Hiroki Ueda, Project: *AAV-mediated triple-target CRISPR strategy for knockout of CNTNAP gene family genes*, Funded by The Blanceflor Foundation (competitive fellowship)

November 2023 - Present : Ph.D. in Biomedical and Neuromotor Sciences, Department of Biomedical and Neuromotor Sciences (Physiology Unit), PRISM Laboratory, University of Bologna.

September 2023 - November 2023: Attendance at the Department of Biomedical and Neuromotor Sciences (Physiology unit) for cultural enrichment related to the experimental method in physiology, PRISM Laboratory, University of Bologna.

January 2022 - February 2023: Internship and preparation of the final exam at the Department of Biomedical and Neuromotor Sciences (Physiology Unit), PRISM Laboratory, University of Bologna.

September 2021 - December 2021: Attendance at the Department of Biomedical and Neuromotor Sciences (Physiology unit), PRISM Laboratory, University of Bologna.

January 2020 - June 2020: Internship and preparation of the final exam at the Department of Chemical and Pharmaceutical Sciences (Organic Chemistry unit), University of Ferrara.

Teaching activities

AY 2023/2024-2025/2025-2025/2026: Teaching tutor for the technical-practical activities of the integrated course "Applied Physiology" of the Course in Medicine and Surgery, University of Bologna.

Dissertation Co-supervisor

AY 2023/2024 Second cycle degree programme in Biologia della Salute, University of Bologna, title: “Studio degli effetti a lungo termine della frammentazione del sonno materno in gravidanza sulla salute dei figli in età adulta in un modello murino” (translated title: Study of the long-term effects of maternal sleep fragmentation during pregnancy on the offspring’s health in adulthood in a murine model), candidate: Lara Verdini.

AY 2022/2023 Second cycle degree programme in Scienze Biomediche Traslazionali, University of Parma, title: “Effetti a lungo termine dell’esposizione perinatale al Clorpirifos sul fenotipo ipnico e sull’espressione di geni coinvolti nella neuroinfiammazione nel topo adulto” (translated title: Long-term effects of perinatal exposure to Chlorpyrifos on sleep phenotype and expression of genes involved in neuroinflammation in adult mouse), candidate: Elisa De Angelis.

Scientific Courses

June 2024: **Una Europa One Health Summer School 2024**, founded by ERASMUS+, University of Helsinki.

January 2022: **Winter school in Ethics and Life Sciences**, University of Bologna.

July 2021: **Summer School in Innovation and Technology Management in Medical and Pharmaceutical Biotechnology**, Bologna Business School, University of Bologna.

Grants and Fellowships

2025 - Blanceflor Foundation Fellowship: Competitive international fellowship to fund research period at the University of Tokyo (Prof. Hiroki Ueda’s laboratory) for a project on **AAV-mediated triple-CRISPR knockout of CNTNAP gene family**.

2024 - Erasmus+ Scholarship: Funding for participation in **Una Europa One Health Summer School 2024**, University of Helsinki.

Conferences oral presentations

- 22/05/2024 - 24/05/2024: 17th Annual Meeting of Young Researchers in Physiology, Catania, Italy, Oral presentation, *Characterization and innovative treatments for obstructive sleep apneas in murine models*.
- 24/09/2024 - 27/09/2024: Sleep Europe 2024 – 27th Congress of the European Sleep Research Society, Seville, Spain, oral presentation and poster, *Characterization of sleep apnoeas and respiratory circuitry alteration in mice lacking CDKL5*.
- 29/11/2024 - 01/12/2024: XXXIV Congresso Nazionale AIMS (Accademia Italiana di Medicina del Sonno), Pisa, Italy, Young researcher symposium, *Sleep fragmentation causes hippocampal neuronal loss in a mouse model of Down syndrome*.

Languages

- Italian: native speaker
- English: fluent (IELTS Academic 6.5, B2)

Elena Miglioranza