

LETIZIA LAZZERINI

Born in Firenze, Italy
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CURRENT POSITION

Jan 2025 – Present Research Fellow – funded by Fondazione Venesio for the project
“Nutrire i talenti per far crescere i talenti”
Neuroscience Institute Cavalieri Ottolenghi
University of Turin, Italy
Group Leader: Prof. Ferdinando Di Cunto

PREVIOUS RESEARCH EXPERIENCE

Feb 2024 – Dec 2024 *Research Fellow at the* Department of Experimental and Clinical
Medicine (DMSC) – University of Florence
Project: “Glia-mediated effects of metabolic factors on the development
and function of human GnRH neurons.”
Group Leader: Prof. Annamaria Morelli

Mar 2023 – Dec 2023 *Curricular Traineeship at the* Department of Experimental and Clinical
Medicine (DMSC) – University of Florence
Master’s thesis: “Environmental pollutants affect the human
gonadotropin-releasing hormone (GnRH) neurons development”
Group Leader: Prof. Annamaria Morelli

Sept 2020 – Feb 2021 *Curricular Traineeship at the* Department of Experimental and Clinical
Biomedical Sciences “Mario Serio”– University of Florence
Bachelor’s thesis: “Role of mesenchymal stem cells (MSCs) in the
tumor microenvironment.”
Group Leader: Prof. Elisabetta Meacci

EDUCATION

Dec 2023 Master’s Degree in Molecular and Applied Biology
Biosanitary and Nutrition Curriculum
University of Florence, Italy

Apr 2021 *Bachelors’ degree in Biological Science*
University of Florence, Italy

OTHER COURSES

June 2024 Participation in the online event Proteintech: “Brain Organoids
Workshop,” issued by Dr. Afrida Rahman-Enyart of Proteintech Group

GRANTS

Research fellowship at Neuroscience Institute Cavalieri Ottolenghi (2025) | Title of the project: *Nutrire i Talenti per far Crescere la Ricerca*

AWARDS

March 2024 Best poster presentation award “Rita Levi-Montalcini”
MorFuture - Turin

CONGRESSES

November 22-23, 2024 (Catania) GISN Annual Meeting 2024 | [poster presentation](#)

April 12-13, 2024 (Turin) MorFuture Meeting | [poster presentation](#)

SCIENTIFIC SOCIETIES

GISN – Gruppo Italiano per lo Studio della Neuromorfologia” (2024)

LABORATORY TECHNIQUES

In vitro cell culture (2D cell lines, 3D spheroid models, stem cells, fetal primary neuronal cells), western blots, immunofluorescence, confocal imaging, PCR, analysis of DNA damage, cell cycle and cell senescence, enzymatic activity assay by zymography, processing and sectioning of histological samples using microtome and cryostat, histological staining techniques, immunohistochemistry techniques, RNA-Seq analysis.

During my laboratory activity, I acquired skills related to the preparation of immortalized, stem, and tumor cell cultures, as well as primary human fetal neuronal cultures. I gained experience in the preparation and fixation of cellular samples for immunocytochemistry, immunofluorescence, and flow cytometry analyses.

I also performed the preparation of histological samples for light microscopy from rat, rabbit, and human tissues (including brain isolation from rat and rabbit, dehydration, clearing, paraffin embedding, and microtome sectioning) for histological staining (Hematoxylin and Eosin, Picrosirius Red, Oil Red O, Giemsa, Masson's Trichrome, Cresyl Violet), immunohistochemistry, and immunofluorescence.

Sample analysis was carried out using **ImageJ (FIJI)** software. I performed major molecular biology techniques, including **DNA/RNA extraction, protein extraction, quantitative RT-PCR, Western blotting, zymography, and protein assays.**

I also analyzed **RNA-Seq data** using **SeqMonk** software, performed **enrichment analyses** with **DAVID** and **Panther**, and utilized major biological databases.

LANGUAGES

Italian: native speaker

English: fluent speaker (First Certificate in English, Cambridge English Language Assessment)

SOFT SKILLS

- Strong communication and interpersonal skills, developed through collaborative work during internships
- Proven ability to work independently and take responsibility, gained through planning and managing my own experiments and analyzing results.

- Solid teamwork skills
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*I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".
Turin, 25 January 2026*