

Curriculum Vitae-Emily Benassi

Education:

2024 | MSc IN EXPERIMENTAL AND APPLIED BIOLOGY | UNIVERSITY OF PAVIA

- Thesis: *Role of the demethylase TET2 in colorectal cancer therapy: a functional and genomic approach.*
- Supervisor: Dr. Rossella Tricarico
- Grade: 110/110 e lode

2022 | BSc IN BIOLOGICAL SCIENCES | UNIVERSITY OF PAVIA

- Thesis: *Analysis of genetic variability of the human Y chromosome male-specific region (MSY) in three Basque population samples.*
- Supervisor: Prof. Ornella Semino
- Grade: 110/110

2019 | HIGH SCHOOL DIPLOMA (CLASSICAL STUDIES) | LICEO G.PEANO, TORTONA

Grade: 74/100

Work Experience

OCT 2025-FEB 2026

- **Research Fellow**

Project: *The role of the glutamatergic neurotransmission in post-partum depression: an integrated molecular-pharmaco-imaging study (DRACULA)*

- Institute of Neuroscience, National Research Council (CNR), Monza
- Supervisor: Prof. Edoardo Moretto

OCT 2024-SEP 2025

- **Research Fellow**

- Project: *Functional analysis of neuronal populations derived from human iPSCs*
- Department of Biology and Biotechnology, University of Pavia – Translational Neuroscience and Neuropsychopharmacology Lab
- Supervisor: Prof. Riccardo Brambilla.

2023-2024

- **Tutor**

- *Basic, Molecular and Population Genetics course* - BSc in Biological Sciences, University of Pavia
- Supervisor: Prof. Ornella Semino.

2022-2024

- **MSc Thesis Internship**

- Project: *Role of TET2 demethylase in colorectal cancer therapy*
- Human and Cancer Genetics Lab, Department of Biology and Biotechnology, University of Pavia
- Supervisor: Dr. Rossella Tricarico.

2022-2023

- **Tutor**

- *Basic, Molecular and Population Genetics course* - BSc in Biological Sciences, University of Pavia · Supervisor: Prof. Ornella Semino.

2021-2022

- **BSc thesis internship**

- Project: *Genetic variability of the human Y chromosome MSY region to investigate the origin of the Basque population.*
- Population Genetics Lab, Department of Biology and Biotechnology, University of Pavia · Supervisor: Prof. Ornella Semino

Scholarships

2024

- Winner of a merit- and income-based scholarship awarded by the Ente per il Diritto allo Studio Universitario (EDISU), Pavia.

Technical Skills

- **Molecular Biology:** nucleic acid extraction, agarose gel electrophoresis, end-point PCR, sequencing, enzymatic digestions, Western Blot.
- **Cell Biology:** cell cultures (tumor lines and induced pluripotent stem cells – iPSCs), chemotherapeutic treatments, proliferation and viability assays, immunofluorescence, cell cycle analysis, flow cytometry staining (FACS). Experience as technician/assistant at the Interdepartmental Neural Stem Cells Facility (INSCF).
- **Software:** Microsoft Office (Word, PowerPoint, Excel), GraphPad Prism, Biorender, ImageJ, ImageLab.
- **Databases:** NCBI PubMed, cBioPortal.

Abstracts

- **2025:** MNESYS – SPOKE 1 Meeting, Parma

Title: *Investigating the role of a novel ERK signalling modulator on neuronal differentiation: insights from human iPSC-derived neural progenitors and implications for 16p11.2 CNV syndromes.* Authors: Zuglian C, **Benassi E**, Morella I, Brambilla R.

- **2025:** NEUROFRONT-Frontiers of Research in Neuroscience and Nervous System Disorders, Bari

Title: *Investigating the role of a novel ERK signalling modulator on neuronal differentiation: insights*

from human iPSC-derived neural progenitors and implications for 16p11.2 CNV syndromes. Authors:

Zuglian C, **Benassi E**, Morella I, Brambilla R.

- **2024:** XXVII National Congress of the Italian Society of Human Genetics (SIGU), Padua

Title: *TET2 alterations in colorectal cancer: impact on molecular and clinico-pathological features, and on therapy response.*

Authors: Manai F, Tulino M, **Benassi E**, Di Matteo A, Cortellino S, Tropeano C.V., De Paoli F, Barbieri G., Ghigna C., Musiani F., Ranzani G.N., Tricarico R.

- **2024:** XVII National Congress of the Italian Federation of Life Sciences (FISV), Padua
Title: *TET2 alterations in colorectal cancer: impact on molecular and clinico-pathological features, and on therapy response.*
Authors: Manai F, Tulino M, **Benassi E**, Di Matteo A, Cortellino S, Tropeano C.V., De Paoli F, Barbieri G., Ghigna C., Musiani F., Ranzani G.N., Tricarico R.

Academic Outreach

- **2024:** “Ora con il ricercatore” ◦ Seminar for high school students ◦
Title: *How genes turn on and off: the magical world of epigenetics* ◦
Liceo Scientifico “G. Gandini” & Liceo Classico “P. Verri”, Lodi ◦
Supervisor: Dr. Rossella Tricarico.
- **2023:** Sharper - European Researchers’ Night, Pavia
◦ Title: *“Women in STEM”: memory game* ◦
Supervisor: Prof. Ilaria Canobbio

Language

- Italian: native language ·
- English: advanced.

Other Professional Experience

- **2020-2024:** Waitress at *Ristorante “Da Giuseppe”*, Montemarzino (AL)
- **2020-2022:** Timekeeper announcer at equestrian center *“Il Torrione”*, Tortona (AL).

Tortona, 18/02/2026