

Elena de Gregorio

PHD CANDIDATE IN TRANSLATIONAL MEDICINE

PhD candidate in Translational Medicine with hands-on experience in molecular and cellular biology techniques. Solid background in experimental research, data analysis, and problem-solving, developed through both independent and team-based projects. Highly motivated to apply scientific expertise across the pharmaceutical, biotech, medical technology, or healthcare sectors, and to grow professionally within dynamic, multidisciplinary teams. Open to relocation and on-site opportunities.



PROFESSIONAL EXPERIENCE

PHD STUDENT IN TRANSLATIONAL AND PRECISION MEDICINE

Università degli Studi di Pavia (Oct. 2022 - Present)

Internship at Department of Molecular Medicine. Project entitled "*In vitro* modelling of Joubert syndrome using patient-derived iPSCs in 2D and 3D cultures"

VISITING PHD STUDENT

Developmental Biology Unit of the Institut de Biologie Paris Seine (IBPS) Paris, France (Sep. 2024 - Mar 2025)

Research focus: Development of 3D culture models of neurogenesis using patient-derived iPSCs to investigate neurodevelopmental diseases

LAB TUTOR

Università degli Studi di Pavia (2023-2025)

In November 2023 and November 2024, experiences as tutor for the "Trainin in the observation, analysis and manipulation of biological preparations project to support students of the two-year Master course in Medical and Pharmaceutical Biotechnologies at the University.



EDUCATION

PHD STUDENT IN TRANSLATIONAL AND PRECISION MEDICINE

Università degli Studi di Pavia (2022 - 2025) Internship at Department of Molecular Medicine.

MASTER DEGREE IN MEDICAL AND PHARMACEUTICAL BIOTECHNOLOGIES

Università degli Studi di Pavia, Department of Public Health, Experimental and Forensic Medicine (2019-2022).

Thesis project "Preliminary study of immunocytochemical characterization and optimization of 3D cell sheet constructs as a model for nanoparticle system studies"

Graduation score: 110/110 cum Laude

BACHELOR DEGREE IN BIOTECHNOLOGIES

Università degli Studi di Ferrara, Department of Neuroscience and Rehabilitation (2016-2019).

Thesis project "Glucosamine: not just an Anti-osteoarthritis drug"

Graduation score: 100/110



PUBLICATIONS

Production and characterisation of four Joubert Syndrome patient-derived induced pluripotent stem cell (iPSC) lines with mutations in either RPGRIP1L or CPLANE1 genes. - Pollara L, De Gregorio E, Buonofiglio V, Bianca L, Stella T, Brusa M, De Gasperi E, Ardisson A, Zanni G, Battini R, Briuglia S, Sottini V*, Valente EM* - Stem Cell Research (May 2025)



Languages

Italian - Mother tongue

English - Upper Intermediate



Technical skills

Cell culture: handling of primary, immortalized and iPSCs cell lines; experience with 3D organoids and pharmacological treatments

Molecular biology techniques: DNA/RNA extraction; PCR; qPCR (Real-Time PCR); sequencing and STR analysis

Protein analysis: Western blotting, immunofluorescence assay

Microscopy: optical and fluorescence microscopy, confocal microscopy

Flow cytometry (FACS): staining; acquisition; and data analysis

Cryostat sectioning and sample preparation for histological analysis

Digital skills

GraphPad Prism

ImageJ

Microsoft Office Suite

Reference managers



Soft skills

Critical thinking and problem-solving

Time and project management

Attention to detail Scientific communication

Teamwork Autonomy and initiative

Resilience and perseverance