

# ELISA CATAUDELLA

5<sup>th</sup> March 1999, Catania, Italy

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## Current Position

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1/10/2024 – present

PhD student in Genetics, Molecular Biology and Cellular Biology, University of Pavia and Institute of Molecular Genetics "Luigi Luca Cavalli-Sforza" – National Research Council (IGM-CNR)

## Education

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20/11/2023

Qualified Professional Biologist, University of Catania

20/07/2023

Master's degree in Cellular and Molecular Biology LM-06, University of Catania

110/110 cum laude

30/09/2021

Bachelor's degree in Biological Sciences L-13, University of Catania

110/110 cum laude

## Research Experience

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05/2024 – 09/2024

Research Fellowship – Institute of Molecular genetics IGM – CNR "Luigi Luca Cavalli-Sforza"

Supervisor: Dr.ssa Claudia Ghigna

Research activity: Dissecting the role of alternative splicing factor NOVA2 in tumor angiogenesis.

07/2023 – 04/2024

Visiting Researcher – University of Catania

Supervisor: Prof.ssa Francesca Maria Guarino

Research activity: Role of VDAC1 in mitochondrial functionality under hypoxic condition.

10/2024 – 07/2024

Master's degree's trainee – University of Catania

Supervisor: Prof.ssa Francesca Maria Guarino

Research activity: Role of VDAC1 in mitochondrial functionality under hypoxic condition.

## Technical Skills and Competences

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Techniques of molecular and cellular biology and biochemistry:

Maintenance of primary human and immortalized cell cultures in adhesion and suspension; cellular transfections of human cell lines using vectors and siRNA; cell viability assay.

DNA and RNA extraction, DNA electrophoretic techniques, Polymerase Chain Reaction (PCR), retro-transcription (RT-PCR), Real-Time PCR (qPCR), maintenance and use of bacterial cell cultures for vector propagation, Gene-Report assay, Chromatin immunoprecipitation assay (ChiP).

Protein extraction from cells, electrophoretic techniques of proteins (SDS-Page), Western Blotting.

Nucleic acid and protein quantification.

Informatics, bioinformatics and statistic:

Microsoft Office, Photoshop, NIH ImageJ/Fiji, Illustrator, GraphPad Prism, NCBI, Ensemble genome browser, Uniprot, UCSC, BLAST.

## Educational Activity

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2023/2024

Tutoring for molecular biology laboratories in several course at University of Catania (LM-06 LM-54 / LM-25)

2023

Orientation Project "OUI: ovunque da qui", University of Catania

## Language

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Italian (native language); English (good knowledge).

## Courses

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- "Il metabolism dell'RNA nelle malattie neurologiche IV Edizione" IRCCS Fondazione Mondino, Pavia 2024.
- "Seeing is believing - sample preparation for fluorescence microscopy", Centro Grandi Strumenti, Pavia 2024.
- "The CRISPR revolution - a course for educators and CRISPR enthusiasts", EMBL 2024.
- "Webinar: Artificial Intelligence in Biologia e Medicina", Fondazione Ghislieri 2024.
- "Prognostic and therapeutic implications of RKIP and YY1 in cancer, diabetes and cardiovascular diseases", Catania 2023.
- "Next Generation Sequencing: dal gene al genoma", Catania 2023.
- "Salute e sicurezza nei luoghi di lavoro", Catania 2022.

## Abstract

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Battiato G, Cubisino SAM, Caruso P, **Cataudella E**, Magrì A, Messina A, De Pinto *VDAC1 knockout in mammalian cells affects mitochondrial respiration forcing the Complex I activity.*  
Oral presentation al "Third international GIBB meeting" – Riva del Garda (TN), 8-10/06/2023.

## PhD Informations

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Title project:

Dissecting the functional role(s) of alternative Nova2 protein variants in endothelial cells.

Supervisor:

Dr.ssa Claudia Ghigna

Co-Supervisor:

Dr. Simone Sabbioneda