

ANDREA DEMARTIS CV

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Education

- **University of Rome “Sapienza” (current)**
Currently: Phd in Biochemistry Rome, Italy
- **University of Rome “Tor Vergata”**
30/10/24 - **Masters Degree** in Medical Biotechnologies – 109/110 (GPA:26,8/30) Rome, Italy
- **University of Sassari**
21/06/11 - **Bachelor’s Degree** in Biotechnologies - 108/110 (GPA:27,5/30) Sassari, Italy
- **Liceo Scientifico Enrico Fermi**
17/07/20 - **High School Graduation** - 83/100 – (GPA: 8/10) Alghero (SS), Italy

Experience

- **Department of Biochemical Sciences “A. Rossi Fanelli” (F. Altieri)** Rome, Italy
PhD Student – PI: Prof. Serena Rinaldo, Supervisor: Prof. Marzia Arese 11/2024 – today
 - 2D Cellular Culture model of Prostate Cancer, role of REXO2 (nano-RNA exonuclease)
 - Cell Culture Maintenance and Treatment
 - Flow Cytometry analysis for ROS, cell cycle and live/dead cell counting
 - Western blotting and Real Time qPCR
 - siRNA silencing and Plasmid transfection (overexpression)
 - Citrate Synthase Assay
 - Statistical analysis through Excel and online softwares (GC data, Overall Survival, RNA and Protein expression)
- **Department of Experimental Medicine, Tor Vergata (E.Candi - G.Melino)** Rome, Italy
Thesis Student – PI: Prof. Massimiliano Agostini 01/2024 – 10/2024
 - 2D Cellular Culture model of Clear Cell Renal Cell Carcinoma
 - Cell Culture Maintenance and Treatment
 - Growth Curve analysis through Incucyte (1 or more treatments)
 - Statistical analysis through Excel and online softwares (GC data, Overall Survival, RNA and Protein expression)
- **Molecular Biology Lab, University of Sassari (C.Iaccarino, C.Crosio)** Sassari, Italy
Thesis Student – PI: Prof. Claudia Crosio 01/2021- 06/2021
 - 2D Cellular Culture Model of ALS/ Parkinson’s Disease with Neuroblastoma cell line
 - Adenoviral transduction to induce the overexpression of α -synuclein, mimicking PD and ALS pathogenesis
 - Molecular Analysis and Imaging: Western Blotting and RT-PCR
 - Endoplasmic Reticulum Stress Evaluation: gene activation of C/EBP homologous protein (CHOP); a stable cell line SH-SY5Y-pCHOP expressing zsGreen (green fluorescent protein) under the control of the human CHOP promoter, previously generated in the laboratory.

Other Skills & Interests

Technical: Office Suite, Adobe Photoshop/Illustrator, UALCAN, KM Plotter, Snap Gene, MEGA-X
Language: Italian (mother tongue) – English (B2)