



Eleonora De Santis

EDUCATION AND TRAINING

[11/2024 – Current] **PhD in "Cellular and Developmental Biology"**
Sapienza University of Rome

[09/2021 – 10/2023] **Master's degree in Neurobiology**
Sapienza University of Rome

| **Final grade:** 110/110 Cum Laude | **Thesis:** The mechanisms of Ferroptosis in the pathogenesis of Friedreich's Ataxia

[10/2022 – 03/2023] **Advanced School in Artificial Intelligence (AS-AI) Interdisciplinary research and applications in Machine Learning, Brain, Mind and Society**
AI2Life srl c/o Institute of Cognitive Sciences and Technologies (ISTC-CNR)

| **Thesis:** "Developing machine learning and deep learning systems for classification and regression"

[2020] **Bachelor's degree in biological science**
Sapienza University of Rome

WORK EXPERIENCE

[06/2022 – 10/2023] **Thesis Student**
Ospedale Pediatrico Bambino Gesù

Name of unit or department: UOS - Muscular and Neurodegenerative Disease

The molecular biology and biochemistry techniques acquired during the program include: protein extraction (es. BCA assay), qRT-PCR, Western blotting, ELISA. Proficiency in enzymatic assays, including enzyme activity measurement, and substrate specificity studies. All studies were carried out on primary cell cultures and blood samples.

[12/2023 – 09/2024] **Research Fellow**
Ospedale pediatrico, Bambino Gesù

Name of unit or department: UOS - Muscular and Neurodegenerative Disease

Advanced scientific research activities aimed at deepening the understanding of the underlying mechanisms of muscular and neurodegenerative diseases, such as muscular dystrophy, leukodystrophies, ataxia and other central nervous system pathologies. Study of pathological processes, such as oxidative damage, neuroinflammation, protein misfolding, and neurodegeneration in cell cultures and blood samples.

PUBLICATIONS & PRESENTATIONS

[2025] Quatrana A, Petrillo S, Torda C, De Santis E, Bertini E, Piemonte F. (2025). Redox homeostasis and inflammation in fibroblasts of patients with Friedreich Ataxia: a possible cross talk. *Front Mol Neurosci.* 16;18:1571402. doi: 10.3389/fnmol.2025.1571402

COURSES AND CERTIFICATIONS

[2025] **Course of "Public Speaking"**

Sapienza University of Rome

[2025] **Course of "Image for Scientific Articles"**

Sapienza University of Roma

[28/08/2024 – 30/08/2024] **Summer school "Concepts and Methods for Neurobiological Research"**

University of Padua

TEACHING AND OUTREACH ACTIVITIES

[04/2025 – 09/2025] **Tutoring Experience** - Sapienza University of Rome

Tutoring assignment for the course "Fundamentals of Neuroscience" in the Bachelor's degree program in Mathematical Sciences for Artificial Intelligence - 40h

HONOURS AND AWARDS

[09/2023] **Excellence program Awarding institution:** Sapienza University of Rome

I completed the required hours of training activities as part of the excellence program at the Oncohematology Flow Cytometry Laboratory, within the Hematology and Stem Cell Unit of the San Camillo-Forlanini Hospital Trust.

BAR EXAM

[01/12/2023] **Passed the examination for the professional practice as a biologist**

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English: Cambridge English: B2 First (Previously First Certificate in English, FCE), 2021

DIGITAL SKILLS

My Digital Skills

Microsoft Word | Microsoft Excel | Google Drive | Zoom | Google Docs | Social Media | MS Office (Word, Powerpoint, Excel, Access) | Organizational and planning skills | Team-work oriented | Decision-making

SOCIAL AND POLITICAL ACTIVITIES

[10/2022 – 10/2023] **Representative of student in the Faculty Council** Sapienza, University of Rome

I was part of the student association "Sapienza in Movimento" and I was elected representative of student in the Faculty Council in the academic year 2022/2023

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi del D.Lgs. 196/2003 e del Regolamento UE 2016/679 (GDPR)

Rome, 1/10/2025

F.to Eleonora De Santis