



Alessandro Giustini

WORK EXPERIENCE

Master Thesis

Maria Elena Miranda Banos' Lab [08/10/2022 – 11/12/2024]

City: Rome | Country: Italy

110/110 cum laude.

Evaluation of the toxicity and activity of new proteolysis targeting chimera (PROTAC) compounds against neuroserpin in a neural stem cell model of neurodegeneration FENIB.

I have experienced:

- Neural progenitor stem cells handling and differentiation
- Neural progenitor stem cells transfection
- Cellular and molecular biology techniques
- Cell viability and cytotoxicity assays

Internship

David Lomas' Lab; UCL, London [29/04/2024 – 02/07/2024]

City: London | Country: United Kingdom

Characterisation and understanding of the molecular basis of the dysfunction of a new mutated variant of neuroserpin (A179):

- Biochemical and biophysical assays
- Structural biology experiments

Project financed by a "Tesi all'estero" grant provided by Sapienza University

Bachelor Thesis

Maria Elena Miranda Banos' Lab [12/11/2021 – 23/03/2022]

City: Rome | Country: Italy

110/110 cum laude.

Characterization of a panel of novel monoclonal antibody against alpha1-antitrypsin and their use in western blot.

I have experienced:

- Cell culture
- Cell biology techniques

EDUCATION AND TRAINING

Master degree in "Genetics and Molecular Biology"

Università La Sapienza [03/10/2022 – 11/12/2024]

City: Rome | Country: Italy | Final grade: 110/110 cum laude

Main courses followed:

Molecular Biology of Stem Cells

Stem Cells in the study of nervous system

Bachelor degree in "Biotechnology"

Università La Sapienza [08/10/2018 – 23/03/2022]

City: Rome | Country: Italy | Final grade: 110/110 cum laude

CONFERENCES AND SEMINARS

[05/06/2023 – 07/06/2023] Palermo

Euroserpin 2023

Poster presentation

"Exploring a proteolysis targeting chimera (PROTAC) approach to enhance the degradation of mutant neuroserpin underlying neurodegeneration FENIB"

PUBLICATIONS

[2025]

An inducible neural stem progenitor cell model for testing therapeutic interventions against neurodegeneration FENIB

Giustini A, Maiocchi A, Serangeli I, Pedrini M, Quintiliani A, Sabato V, Bonato F, Seneci P, Lupo G, Passarella D, Miranda E

[2023]

Thymol-Functionalized Hyaluronic Acid as Promising Preservative Biomaterial for the Inhibition of *Candida Albicans* Biofilm Formation.

Sturabotti E, Moldoveanu VG, Camilli A, Martinelli A, Simonetti G, Valletta A, Serangeli I, Giustini A, Miranda E, Migneco LM, Vetica F, Leonelli F

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Autorizzo la pubblicazione del mio curriculum vitae e il trattamento dei dati personali in esso contenuti in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16