



MAURO GIUSEPPE SPATAFORA

PHD STUDENT

EDUCATION

Liceo Scientifico Statale "S. Cannizzaro", Palermo

SEPTEMBER 2008 – JULY 2013

B.Sc. in Biology, University of Palermo, Palermo

OCTOBER 2013 – JULY 2018

Final Grade: 98/110

Thesis: "The role of antibody-mediated immunity in the pathophysiology of dysimmune polyneuropathies"

M.Sc. in Neurobiology, University of Pavia, Pavia

OCTOBER 2018 – JUNE 2021

Final Grade: 109/110

Experimental thesis: "Investigation of the role of Glycoprotein non-metastatic melanoma protein B (GPNMB) in a rat model of amyotrophic lateral sclerosis"

AWARDS

- Poster award: "Giovani per la ricerca" at Convegno AriSLA 2022
- IBRO Collaborative Research Grant 2025

INTERSHIPS

Post Graduate Research Fellow at Laboratory of Molecular and Cellular Neuropharmacology, Dr. Marco Peviani. University of Pavia, Pavia

JUNE 2021 – SEPT 2022

ERASMUS TRAINEESHIP

Traineeship title: Dissecting GPNMB molecular pathways in ALS CERVO Brain research centre, Quebec, Canada.

FEBRUARY 2025 - AUGUST 2025

TRAINING COURSES AND CERTIFICATES

- BIOLOGIA E GESTIONE DEGLI ANIMALI DA LABORATORIO, MODULI 3.1, 4, 5, 6.1, 7. DM 5 AGOSTO 2021 RODITORI E LAGOMORFI.
- LEGISLAZIONE NAZIONALE ED ETICA LIVELLO 1, MODULI 1 E 2, DM 5 AGOSTO 2021.

DECEMBER 2022

- "CORSO DI FORMAZIONE "PARTE PRATICA" SULL'UTILIZZO DEGLI ANIMALI NELLA SPERIMENTAZIONE, AI SENSI DEL DM 5 AGOSTO 2021":
 1. Moduli 3.2 Biologia di Base - 6.2 Eutanasia - 8 Procedure minimamente invasive senza Anestesia - Specie Mus Musculus
 2. Moduli 3.2 Biologia di Base - 6.2 Eutanasia - 8 Procedure minimamente invasive senza Anestesia - Specie Rattus Norvegicus

OCTOBER 2024 - MARCH 2025

ORAL AND POSTER PRESENTATION AT:

- Biomarkers: una guida per la diagnosi e la terapia personalizzata nelle malattie neurologiche 2024 [Oral]
- MND Symposium 2023 [Poster]
- FENS 2022 [Poster]
- Arisla Conference 2022 [Poster]
- MND Symposium 2021-2022-2023 [Poster]
- MND Motor Neuron Diseases: understanding the pathogenetic mechanisms to develop therapies II edition 2022 [Poster]
- Next Generation Neurobiology Training: A new era begins at University of Pavia [Poster]
- ENCALS meeting 2023 [Poster]

LANGUAGES

- Italian
- English

TECHNICAL SKILLS

- IHC/ICC
- In Situ Hybridization
- ELISA / Ella Assay
- Animal management and tissue processing
- Cell cultures: primary and immortalized cells
- Lentiviral transfection and transduction
- Microbiology: bacteria cell culture, transformation, DNA extraction, plasmid cloning
- PCR/qPCR
- Neural tissue dissociation
- Western blotting
- Flow cytometry
- DLS
- Confocal microscopy
- Spectrofluorimetry
- Spinal cord acute slices

COMPUTER SKILLS

Microsoft office: Word, Excel, PowerPoint, ImageJ, Graphpad PRISM, GENTle, FlowJo, Zetasizer, IDEAS, LASX, Lightroom, Photoshop

PUBLICATIONS

Co-author of "Etherogeneity of neuroinflammatory responses in amyotrophical lateral sclerosis: a challenge or an opportunity?" Cipollina et al.

REVIEW, INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, OCT 2020

Author of "Investigation of neuroinflammatory responses at single-cell resolution reveals novel insights into the therapeutic potential of GPNMB (glycoprotein non melanoma protein B) in ALS." Mauro G. Spatafora et al.

POSTER ABSTRACT, MND SYMPOSIUM, DEC 2021

Author of "Novel insights on the role and therapeutic potential of Glycoprotein non metastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, MND SYMPOSIUM, DEC 2022

Author of "First evidence of altered Gas6-Axl signaling and correlation between sAXL blood levels and clinical decline in ALS" Mauro G. Spatafora et al.

ABSTRACT, MND SYMPOSIUM, DEC 2022

Author of "Novel insights on the role and therapeutic potential of Glycoprotein nonmetastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, FENS 2022, JUL 2022

Author of "Novel insights on the role and therapeutic potential of Glycoprotein non metastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, ARISLA 2022, NOV 2022

Author of "Novel insights on the role and therapeutic potential of Glycoprotein non metastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, MND TURIN, NOV 2022

Author of "Novel insights on the role and therapeutic potential of Glycoprotein non metastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, SINS 2023, SEPT 2023

Author of "Novel insights on the role and therapeutic potential of Glycoprotein non metastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, MND SYMPOSIUM, DIC 2023

Author of "Novel insights on the role and therapeutic potential of Glycoprotein non metastatic melanoma protein B (Gpnmb) in Amyotrophic Lateral Sclerosis." Mauro G. Spatafora et al.

POSTER ABSTRACT, ENCALS Meeting, JULY 2023

Co-author of "Neuroinflammation and neurodegeneration in ALS: exploring new therapeutic approach based on Multi-Targeted Direct Ligands against TSPO and Sigma 1 receptor." Andrea Gazzano et al.

POSTER ABSTRACT, SINS 2023, SEPT 2023

Co-author of "Novel functionalized nanoparticles targeted to 18KDa translocator protein (TSPO) to track and modulate neuroinflammation in animal models of familial Amyotrophic Lateral Sclerosis." Andrea Gazzano et al.

POSTER ABSTRACT, FENS 2022, JUL 2022

Co-author of "Increased ADAM 10/17 activity in an animal model of ALS: rationale for targeting ADAMs as a potential therapeutic target?" Paolo Cabras et al.

POSTER ABSTRACT, ARISLA 2022, NOV 2022

Co-author of "Investigating the Role of Odorant binding proteins in Glossina reproduction" Giulia Fiorenza et al.

POSTER ABSTRACT, EMBO JUL 2022

Co-author of "Serine-glycine dysmetabolism in PINK1 deficient neuronal models of Parkinson's Disease" Francesco Brunelli et al.

POSTER ABSTRACT, GEoPD NOV 2022

Co-supervisor of "Approfondimento del ruolo di GPNMB (glicoproteina B del melanoma non metastatico) come target terapeutico e biomarcatore in un modello di ratto di sclerosi laterale amiotrofica." Paolo Cabras

EXPERIMENTAL MASTER THESIS, 2022

Co-supervisor of "Studio esplorativo di ADAM10/17 e dei loro target proteici come potenziali biomarcatori nella Sclerosi Laterale Amiotrofica." Agnese Dimartino

EXPERIMENTAL MASTER THESIS, 2022

Co-supervisor of "Studio del ruolo del recettore Axl e del suo ligando Gas6 in un modello animale di Sclerosi Laterale Amiotrofica Familiare." Loris Bandirali

EXPERIMENTAL MASTER THESIS, 2022

Co-supervisor of "Implementazione di un protocollo per la produzione e caratterizzazione dei gectosomi come nanovettori per il trasporto di macromolecole a livello cellulare." Aurora Giavaldi

EXPERIMENTAL BACHELOR THESIS, 2022

Co-supervisor of "Ottimizzazione di un protocollo di differenziamento neuritico della linea cellulare PC12 all'interno del chip microfluidico AXIS." Maria Chiara Onorato

EXPERIMENTAL BACHELOR THESIS, 2022

Co-supervisor of "Utilizzo del software di machine learning Ilastik per l'analisi della crescita neuritica nella linea cellulare PC12." Teodoro Manilla

EXPERIMENTAL BACHELOR THESIS, 2022

Pavia, 06.11.25

Faithfully,
