



# 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"

### Internships

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

JUNE 2021 – SEPT 2022

### Awards

Poster award: "Giovani per la ricerca" at Convegno AriSLA 2022

### Extra-curricular activities

AriSLA Congress: '10 anni insieme, alleanza concreta per nuove prospettive di ricerca: speranza reale per un futuro senza SLA'

NOVEMBER 2019

Webinar AriSLA "Modelli per comprendere la SLA: validità peculiarità e nuove opportunità"

SEPTEMBER 2020

Training courses:

- 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

Poster presentations at:

- FENS 2022
- Arisla Conference 2022
- MND Symposium 2022
- MND Motor Neuron Diseases: understanding the pathogenetic mechanisms to develop therapies II edition 2022
- Next Generation Neurobiology Training: A new era begins at University of Pavia

### DETAILS

Corso Cairoli 8, Pavia, 27100, Italy

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DRIVING LICENSE: B

### LANGUAGES

●●●●● Italian  
●●●● English

### TECHNICAL SKILLS

- IHC/ICC
- In Situ Hybridization
- ELISA Assay
- Animal management and tissue processing
- Cell cultures
- Viral transfection
- Microbiology: bacteria cell culture, transformation, DNA extraction, plasmid cloning
- PCR/qPCR
- NTDK
- Western blotting
- Flow cytometry
- DLS
- Confocal microscopy
- Spectrofluorimetry

### 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

**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, 09.01.2023

Faithfully,  
