

FEDERICA VIRLA

Address: Via Roma 162, 13816 Sagliano Micca (BI), Italy

Date of birth: 21/06/1994

Nationality: Italian

Email: federica.virla@univr.it

Education

2019 – Now **PhD in Neuroscience, Psychological and Psychiatric Sciences, and Movement Sciences**
University of Verona

Field of study: Exosomes from adipose stem cells as innovative therapeutic approach in a ALS murine model

Supervisor: Prof. Mariotti Raffaella

2013 - 2019 **Master's degree in Pharmaceutical Chemistry and Technologies**
University of Turin

Thesis: "Administration of exosomes isolated from adipose-derived stromal cells in a murine model of Spinal Muscular Atrophy: effects of a new potential therapeutic strategy"

Supervisor: Prof. Boido Marina

2008 - 2013 **High school leaving certificate in Science**
Liceo Scientifico A. Avogadro, Biella

Scientific experiences

June 2018 - April 2019 **Internship (Master's research thesis)**
Neuroscience Institute Cavalieri Ottolenghi, Orbassano (TO)

February - May 2018 **Erasmus Traineeship in Hospital Pharmacy**
Hospital Sousa Martins USL, Guarda (Portugal)

Skills: Hospital medication knowledge, distribution/Unit dose, repackaging, purchasing and management, cytotoxic area.

October - January 2017 **Internship in Pharmacy**
Farmacia Rolando N., Vigliano Biellese (BI)

Skills: supplying medicine, preparation of galenic products (GMP), stock and narcotic/psychotropic drugs management, Farmaconsult software.

International experiences

September 2016 - February 2017

Erasmus project for courses and exams

University of Seville (Spain)

Skills profile

Mother tongue: Italian

Other languages: English

Reading: Good (B1)

Writing: Good (B1)

Speaking: Good (B1)

Spanish

Reading: Good

Writing: Good

Speaking: Good

Diploma de Español como Lengua Extranjera (DELE) – B1

Digital competence: Good knowledge of Microsoft office software, Internet, E-mail. European Computer Driving License (ECDL).

Driving licence: B

Scientific skills

- Molecular biology: DNA amplification (PCR).
- Handling of laboratory animals: behavioral/motor tests for neonatal and adult mice; perfusion and tissue isolation; cryostat. Intranasal and intracerebroventricular drugs administrations.
- Istology: histochemistry staining, immunohistochemistry/immunofluorescence staining.
- Equipment: optical and fluorescence microscope; use of ImageJ, StereoInvestigator and NeuroLucida softwares.
- Data analysis: use of Excel and GraphPad Prism softwares.

Publications

- Bonafede R, Turano E, Scambi I, Busato A, Bontempi P, Virla F, Schiaffino L, Marzola P, Bonetti B, and Mariotti R. ASC-Exosomes Ameliorate the Disease Progression in

SOD1 (G93A) Murine Model Underlining Their Potential Therapeutic Use in Human ALS. *Int J Mol Sci.* 2020;21(10):3651.

Courses and seminars

- **September 2020:** Four Seasons Seminars “The long and winding road from Neuroscience to Psychiatry and viceversa”, University of Verona.
- **July 2020:** Matlab programming with applications to signal processing (Prof. Fumene Feruglio P), University of Verona.
- **June 2020:** Four Seasons Seminars “Doping”, University of Verona.
- **February 2020:** Four Seasons Seminars “The Olfaction”, University of Verona.
- **February 2020:** Progetti di ricerca: qualità e consapevolezza! (Speakers: Scenna L, D'Angelo L, Zappulla F, Campagnol M, Panzini G, D'Amore E), University of Verona.
- **January 2020:** Corso di formazione speciale e di aggiornamento professionale: I Dispositivi di Protezione Collettiva per la prevenzione dei rischi nei laboratori di ricerca e analisi (Parrello P, Melissari D), University of Verona.
- **Dicember 2019:** Corso di formazione generale sulla SSL per Lavoratori, University of Verona.
- **November 2019:** Corso C.I.R.S.A.L. per il personale utilizzatore dello stabulario (Prof. Scenna L, Tedeschi E), University of Verona.

Congresses

- **16-18 October 2020: 17th IIM (Interuniversity Institute of Myology) Meeting**
Poster presentation: “ASC-exosomes induce a neuroprotective effect on the SOD1 (G93A) mouse model of ALS”
Federica Virla, Sylwia Dabrowska, Ilaria Scambi, Ermanna Turano and Raffaella Mariotti
- **6-7 November 2020: Motor Neuron Diseases: understanding the pathogenetic mechanisms to develop therapies, Università degli studi di Torino**
Poster presentation: Exosomes isolated from adipose-derived stem cells ameliorate the disease progression in SMN Δ 7 murine model
Federica Virla, Marina Boido and Raffaella Mariotti
- **12-14 November 2020: XXX Convegno Nazionale Virtuale del Gruppo Italiano per lo Studio della Neuromorfologia (GISN), Torino, Italia**
Oral presentation: ASC-exosomes administration: a therapeutic approach for ALS and SMA
Federica Virla, Sylwia Dabrowska, Ilaria Scambi, Ermanna Turano, Molakun Bankole, Marina Boido and Raffaella Mariotti

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.