

First name / Surname

**Laura Ferrucci**

## Education and training

Dates

**2018-current**

Title of qualification awarded

PhD Student in "Clinical and Experimental Neuroscience and psychiatry", Curriculum in Neurophysiology, supervisor Davide Ragozzino.  
Working with electrophysiological techniques in order to study microglial role in regulating synaptic functions in the brain in physiological conditions.

Name and type of organisation providing education and training

Sapienza University, Piazzale Aldo Moro 5. Physiology and Pharmacology V. Erspamer Department.

Dates

**2016-2018**

Title of qualification awarded

Master degree, final mark 110/110 cum laude. Thesis in Neurophysiology "The role of microglia in mice hippocampal synapses function: from synaptic properties to cognitive functions", supervisor Davide Ragozzino.

Name and type of organisation Providing education and training

Sapienza University, Piazzale Aldo Moro 5. Neurobiology master degree program.

Dates

**2013-2016**

Title of qualification awarded

Bachelor's degree, final mark 99/110. Final thesis in Physiology "The role of laminins in the organization of the neuromuscular junction", supervisor Giancarlo Poiana

Name and type of organisation providing education and training

Sapienza University, Piazzale Aldo Moro 5. Mathematical, Physical and Natural Sciences faculty, Biology degree program.

Dates

**2009-2013**

Title of qualification

Linguistic High School Diploma

Name and type of organisation providing education and training

Lucrezio Caro Linguistic High School, Via Venezuela 30, Rome Italy

Spoken languages

- English B2
- French B1
- Spanish B1

Social skills and organizational skills

I am an adaptable person, autonomous and also cooperative when working in a team. I am also a communicative, caring and an empathic person. Regarding organizational skills I am a focused person, able to plan and manage experiments with great attention to details.

Technical skills and competences

- Preparation of acute brain slices for electrophysiology and live imaging
- Whole cell patch clamp electrophysiological recordings
- Fluorescence live imaging on acute slices and cultured cells
- Preparation of histological samples for confocal microscopy: mice perfusion and cryostat sectioning of the tissues
- Immunofluorescence on brain tissue

Computer skills and competences

Good Knowledge of Word, Power Point and Excel. Data analysis of electrophysiological data with Clampfit and Origin. Image analysis with ImageJ.

### Additional informations

#### ATTENDED COURSES

- Synanet 3<sup>th</sup> Workshop "Animal Welfare in animal research" in Rome, 2019 November 22<sup>th</sup> and 23<sup>th</sup>
- SynaNet "Training course on cell cultures" in Lisbon, 2018 December 3<sup>th</sup>-7<sup>th</sup>

#### CONFERENCES PRESENTATIONS

- Epileptogenesis and Epilepsy Network, 2<sup>nd</sup> annual meeting, 10<sup>th</sup>-11<sup>th</sup> January 2022. Presentation of poster "*CX3CL1 chemokine modulates synaptic function by recruiting microglial processes*"
- EMBO Workshop Microglia 2021, 28<sup>th</sup>-29<sup>th</sup> October 2021. Presentation of poster "*Microglia control glutamatergic synapses in the adult mouse hippocampus*"
- Glial cells-neuron crosstalk in CNS health and disease workshop, 2020 1<sup>st</sup>- 3<sup>rd</sup> October. Presentation of poster "*Chemokine CX3CL1 attracts microglial processes regulating synaptic function*"
- "Lighting up the brain" PhD Neuroscience Symposium in Sapienza, Rome, 2019 4<sup>th</sup> July, oral communication "*Constitutive role of microglia in maintaining synaptic function in hippocampus*"

### Scientific production

- Basilico B, Ferrucci L, Ratano P, Golia MT, Grimaldi A, Rosito M, Ferretti V, Reverte I, Sanchini C, Marrone MC, Giubettini M, De Turrís V, Salerno D, Garofalo S, St-Pierre MK, Carrier M, Renzi M, Pagani F, Modi B, Raspa M, Scavizzi F, Gross CT, Marinelli S, Tremblay MÉ, Caprioli D, Maggi L, Limatola C, Di Angelantonio S, Ragozzino D. Microglia control glutamatergic synapses in the adult mouse hippocampus. *Glia*. 2022 Jan;70(1):173-195. doi: 10.1002/glia.24101. Epub 2021 Oct 18. PMID: 34661306.
- Cordella F, Sanchini C, Rosito M, Ferrucci L, Pediconi N, Cortese B, Guerrieri F, Pascucci GR, Antonangeli F, Peruzzi G, Giubettini M, Basilico B, Pagani F, Grimaldi A, D'Alessandro G, Limatola C, Ragozzino D, Di Angelantonio S. Antibiotics Treatment Modulates Microglia-Synapses Interaction. *Cells*. 2021 Oct 4;10(10):2648. doi: 10.3390/cells10102648. PMID: 34685628; PMCID: PMC8534187.

Autorizzo il trattamento dei miei dati personali, ai sensi del D.lgs. 196 del 30 giugno 2003

Roma, il 21/01/2022

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