Curriculum Vitae et Studiorum

Personal Information Francesco Marrocco

Education

October 2018- present PhD in Clinical/Experimental Neuroscience and Psychiatry-
Sapienza University of Rome
- Supervisor: prof. Cristina Limatola
- Skills acquired: cellular and molecular biology, behavioural neuroscience.

Sep 2014- Dec 2017 MSc in Neurobiology (106/110)-Sapienza University of Rome
- Supervisor: Dott. Silvia Middei/ Prof. Andrea Mele
- Skills acquired: molecular biology, confocal imaging, behavioural neuroscience.

Sep 2009- Dec 2014 BSc in Biology (92/110)-Sapienza University of Rome
- Supervisor: Prof. Andrea Mele
- Skills acquired: behavioural neuroscience, stereotaxic surgery.

Titles

16 June 2020 Qualification to the Profession of Biologist- Sapienza University of Rome

Research experience

October 2018-present	Department of Physiology and Pharmacology, Sapienza University of Rome- PhD Student

- Research Area: Neurophysiology
- Research topic: Study the effects of microbiota modulation on glioblastoma growth using cellular and molecular technique, stereotaxic surgery, and confocal imaging technique.

Sep 2014- Dec 2017	CNR- National Research Council- Fosso del Fiorano, 64- 00143, Rome, Italy

- Research Area: Neurobiology
- Research topic: Study the effects of hyperactivity of entorhinal cortex in Alzheimer's disease mice model using pharmacogenetic modulation, stereotaxic surgery, behavioural tasks and confocal imaging technique.

Sep 2009- Dec 2014	Department of Biology and Biotechnology, Sapienza University of Rome-

- Research Area: Biology
- Research topic: Study the effects of molecular machinery in memory plasticity using stereotaxic surgery, behavioural tasks and histological technique.

Personal and Technical Skills

Native Language   Italian

Other languages
English

Listening	Reading	Interaction	Verbal production	Writing
B2	B2	B1	B1	B1

Levels: A1/A2: beginner- B1/B2: intermediate- C1/C2: advanced

Digital Skills

- Microsoft Office suite.
- Statistics software: SigmaPlot, Graphpad.
- Imaging and deconvolution software: Metamorph, Imaris, Neurolucida, ImageJ.
- Behavioural software: Ethovision, Animaze.

Technical Skills

- Cellular and molecular biology: cell cultures, DNA/RNA and protein extraction and quantification, PCR and q-PCR, Western blot, Immunofluorescence.
- Imaging: Confocal microscopy, fluorescence microscopy.
- Behavioural technique: Morris water maze, Contextual Fear Conditioning, Open Field, Novel Object Recognition, Rotarod.
- Surgery: Stereotaxic surgery, dissection, and tissue collection in rodent, transcardial perfusion.

Scholarships

October 2018 Winner of a three-year PhD scholarship at Sapienza University, Rome, Italy

ATTENDANCE TO MEETING AND COURSES

- Brainstorming Research Assembly for Young Neuroscientists (Brayn), <u>Oral</u> <u>Presentation:</u>
  "Environmental enrichment modifies gut microbiome and metabolome enhancing memory and neurogenesis through short-chain fatty acids"
  Pisa, 20-21-22/10/2019

- Courses of Preclinical Experimentation and Animal welfare
  Rome, July and September 2020

- Brainstorming Research Assembly for Young Neuroscientists (Brayn), <u>Post</u> <u>Presentation:</u>
  "Gut microbiota alterations affect glioma growth and innate immune cells involved in tumor immunosurveillance in mice"
  Milan, 14-16/11/2019

- Synanet Workshop in "Animal welfare in neuroscience research"
  Rome 22-23/11/2018

PUBLICATIONS

1. D'Alessandro G, Antonangeli F, **Marrocco F**, Porzia A, Lauro C, Santoni A, Limatola C.Gut microbiota alterations affect glioma growth and innate immune cells involved in tumor immunosurveillance in mice. Eur J Immunol. 2020 May;50(5):705-711. doi: 10.1002/eji.201948354.

2. Scopa C, **Marrocco F**, Latina V, Ruggeri F, Corvaglia V, La Regina F, Ammassari-Teule M, Middei S, Amadoro G, Meli G, Scardigli R, Cattaneo A. Impaired adult neurogenesis is an early event in Alzheimer's disease neurodegeneration, mediated by intracellular Aβ oligomers. Cell Death Differ. 2020 Mar;27(3):934-948. doi: 10.1038/s41418-019-0409-3.

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Roma, il 07/03/2022

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