



MARCO SALLUZZO

Ph.D. in Neuroscience

EDUCATION

From 01/11/2017
to 31/12/2020

University of Florence - Tuscan Ph.D in Neurosciences

Performed at the Institute of Neurophysiology of the National Research Council in Pisa, in collaboration with the Ludwig Maximilian University of Munich, Germany.

From 29/09/2014
to 24/03/2017

University of Trieste - Master Degree in Neuroscience

Master's Degree Course. Lessons and exams held in English.
Final grade: 110/110

From 09/2009 to
03/2014

University of Catania - Bachelor's Degree in Biological Sciences

Final grade: 110/110

WORK AND STAGE EXPERIENCES

From 01/03/2022 -
current occupation

Post-doctoral fellowship - Department of Pharmacy and Biotechnology (FaBiT) - Alma Mater Studiorum, University of Bologna - Bologna, Italy. Behavioral and molecular studies on epigenetic modulation of Major Depression Disorder (MDD) in a murine model of Unpredictable Chronic Mild Stress (UCMS).

From 15/01/2021 to
15/01/2022

Post-graduate scholarship - Institute of Neurophysiology, National Research Council (CNR) - Pisa, Italy. Studies on the use of gene therapy and motor rehabilitation following cerebral ischemia in the mouse motor cortex.

From 01/11/2017 to
31/12/2020

PhD student - Institute of Neurophysiology, National Research Council (CNR) - Pisa, Italy. Studies concerning the direct reprogramming of glial cells into neurons through the use of neurogenic determinants in a mouse model of stroke. Analysis of the connectivity of the new neurons and evaluation of their effects on motor functional recovery through behavioral tests.

From 01/06/2017 to
31/10/2017

Post-graduate scholarship - Laboratory of Visual Neuroscience, International Superior School of Advanced Studies (SISSA) - Trieste, Italy. Studies on the rat visual cortex through immunohistochemistry and behavioral tests.

From 29/03/2016 to
29/03/2017

Master's Degree Internship - Laboratory of Visual Neuroscience, International Superior School of Advanced Studies (SISSA) - Trieste, Italy. Studies, through immunohistochemistry, on the morphological boundaries between the primary and secondary visual cortical areas in the rat. Learning and use of behavioral tests to investigate the rat's ability to discern different visual stimuli.

From 01/05/2014 to
15/09/2014

University Internship (voluntary) - Department of Biomedical Sciences, Section of Physiology - Catania, Italy. Attendance in studies on mouse models of neurodegenerative diseases (Alzheimer and Parkinson diseases).

From 10/01/2014 to
15/03/2014

Bachelor's Degree Internship - Department of Biological, Geological and Environmental Sciences, Animal Biology Section - Catania, Italy. Learning of the main techniques for the fixation of animal tissues, of the main histological staining, and image acquisition by use of optical microscopy.

PUBLICATIONS

Alia C., Cangì D., Massa V., **Salluzzo M.**, Vignozzi L., Caleo M., Spalletti C. Cell-to-cell interactions mediating functional recovery after stroke. *Cells*. 2021; 10(11):3050. <https://doi.org/10.3390/cells10113050>

AWARDS

From 18/05/2019 to
25/05/2019

Selected by the Neuroscience School of Advanced Studies (NSAS) to participate actively at the Summer school in Neural Stem Cells in Development and Brain Repair, Fourth Edition. Venice, Italy.

PRESENTATIONS

Poster Presentations:

Salluzzo M., Martins Mendez M, Alia C., Cangì D., Götz M., Cremisi F., Caleo M. Direct Reprogramming of Reactive Astrocytes in Neurons in Mouse Motor Cortex after Stroke.

- Presented at the 2nd Brainstorming Research Assembly for Young Neuroscientists (BraYn), 14-16 November 2019. Milan, Italy;
- Presented at the Annual Retreat of the Neuroscience Institute CNR, 2-4 October 2019, Pisa, Italy.

Talks:

- Visit the Department of Physiological Genomics of Ludwig Maximilian University, and presentation of the results achieved. Munich, February 2020.

LANGUAGES

Italian (Native language), **English** (Self-assessment: Level B2)

TECHINICAL SKILLS

- Animal handling (rodents).
- Intraperitoneal (IP) injections.
- Surgeries: photothrombotic ischemic lesion; injections of AAV and neural tracers (BDA) in the cerebral parenchyma; stab wound lesion.
- Use of behavioral tests for: evaluation of anhedonia (sucrose preference test), anxiety (elevated plus maze, open field, splash test) and sociability (three chambers test); estimation of motor deficits and rehabilitation after ischemia (Gridwalk, Schallert cylinder and reaching tests); evaluation of memory and cognitive decay (Morris Water Maze Test); animal training on visual object discrimination.
- DNA extraction and genotyping (centrifugation, PCR, and electrophoresis); RNA extraction and retrotranscription; protein extraction (BCA assay) and Western Blot.
- Preparation of brain and spinal cord tissue samples (perfusion, brain extraction, microtome cut).
- Immunohistochemistry: processing of brain slices using immunoperoxidase and immunofluorescence methods
- Histochemistry: Nissl stain, hematoxylin-eosin staining;
- Use of optical, fluorescence, and confocal microscopy;
- Attendance to optogenetic and electrophysiological recordings sessions.
- Quantification and statistical data analysis.

INFORMATIC SKILLS

Behavioral data analysis:

- Monkey Works
- MATLAB (Basics)

Statistics

- Excel
- SigmaPlot 12.0;
- GraphPad Prism
- InVivoStat

Image analysis and manipulation:

- ZEN Lite software;
- ImageJ/Fiji;
- Photoshop (Basics)

Writing and data presentation:

- Office (Word, Powerpoint)

SOFT SKILLS

- Teamwork
- Time management
- Critical Thinking
- Leadership

- Creativity
- Quick learning
- Problem-solving
- Communication

PERSONAL INFORMATION

- Hobbies and passions: music, philosophy, playing guitar, drawing, yoga, reading, cooking.
- Available to travel and/or relocate.
- Driving license level B. Not owner of a car.

For references, please contact:

- Dr. Claudia Alia, Neurophysiology Institute, CNR Pisa, Italy: claudia.alia@in.cnr.it
- Dr. Margherita Riggi, Visual Neuroscience laboratory, SISSA, Trieste, Italy: mar.riggi@gmail.com

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV and application for recruiting purposes

Date: 15/10/2022

Signature:

