

PERSONAL INFORMATION

Sara Cimini

📍 Fondazione IRCCS Istituto Neurologico Carlo Besta
UO Neurologia V e Neuropatologia
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Gender: F | Nationality: Italian

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WORK EXPERIENCE

January 2022 – to present:

Italian NHS Reseacher

Fondazione IRCCS - Istituto Neurologico Carlo Besta, Unit of Neurology V and Neuropathology, Via Amadeo 42, 20133 Milan, Italy

- Biochemical and cellular studies in neurodegenerative diseases, fronto-temporal dementia (FTD)

August 2017 – December 2021:

Contract Researcher

Fondazione IRCCS - Istituto Neurologico Carlo Besta, Unit of Neurology V and Neuropathology, Via Amadeo 42, 20133 Milan, Italy

- Biochemical and cellular studies in neurodegenerative diseases, fronto-temporal dementia (FTD)

July 2012 – July 2015:

Research fellow

IRCCS - Istituto di Ricerche Farmacologiche Mario Negri, Department of Neuroscience, Neuronal Death and Neuroprotection Unit, via Mario Negri, 2, 20156 Milan, Italy

- *In vivo* and *in vitro* studies in neurodegenerative diseases and synaptopathy (Alzheimer's disease and Rett syndrome)

EDUCATION AND TRAINING

July 2015

Research fellow

IRCCS - Istituto di Ricerche Farmacologiche Mario Negri, Department of Neuroscience, Neuronal Death and Neuroprotection Unit, via Mario Negri, 2, 20156 Milan, Italy

Certificate released by Regione LOMBARDIA

- Characterization of the effects of β -amyloid A673V mutation on excitatory synapses;
- Testing the neuroprotective effect of synthetic compound or cell permeable peptides *in vitro* or *in vivo* disease models

February 2012

Master's Degree in Pharmaceutical Biotechnology

University of Milan. Undergraduate fellow, IRCCS - Istituto di Ricerche Farmacologiche Mario Negri, Department of Biochemistry, Molecular Pathology Unit

- Pathological role of macroautophagy in a cellular model of amyotrophic lateral sclerosis (ALS)

March 2008

Bachelor Degree in Pharmaceutical Biotechnology

University of Milan.

- Western blotting analysis to study proteolytic activity of proteasome in a cellular model of amyotrophic lateral sclerosis (ALS)

TECHNICAL SKILLS

- Sterile condition working
- *In vitro* and *in vivo* studies
- Animal handling
- Mouse/rat hippocampus and cortex explant, preparation and maintenance of primary neuronal cell cultures
- Cell viability assay (MTT assay, LDH assay, Trypan blue assay)
- Extraction of post-synaptic density proteins from cells and tissues with triton X-100 fractionation (TIF, Gardoni et al, 2001)
- Protein quantification assay (BCA and Bradford assay)
- Western Blot and densitometric analysis (ImageJ, QuantityOne)
- Synaptic density and morphology analysis by optical, confocal and time-lapse microscopes
- Immunocytochemistry and immunohistochemistry
- Enzymatic activity assay and endogenous compound by fluorimetry, spectrophometry or luminescence methods
- Cell culture transfection
- DNA extraction from tissues
- PCR
- DNA sequencing (Sanger method)