PERSONAL INFORMATION

Chiara Maria Giulia De Luca

📍 Fondazione IRCCS Istituto Neurologico Carlo Besta
UO Neurologia 5 - Neuropatologia
Address

✉ chiara.deluca@istituto-besta.it

Gender: F | *Nationality:* Italian

ORCID: 0000-0002-6233-8272

WORK EXPERIENCE

2022 - present

Italian NHS Researcher

Fondazione IRCCS Istituto Neurologico Carlo Besta – U.O. Neurology 5/Neuropathology (Milan, Italy)

▪ Development of ultrasensitive assays (RT-QuIC) for the diagnosis of sinucleinopathies and tauopathies, through the detection of disease-specific biomarkers in skin biopsy and plasma samples. Study of the nasal microbiota in patients with sinucleinopathies. Diagnostic of human prion diseases.

2017 - 2021

Contract researcher

Fondazione IRCCS Istituto Neurologico Carlo Besta – U.O. Neurology 5/Neuropathology (Milan, Italy)

▪ Development of ultrasensitive assays (RT-QuIC) for the diagnosis of sinucleinopathies, through the detection of disease-specific biomarkers in olfactory mucosa samples. Experimentation on mouse models for the study of the molecular mechanisms underlying the protein aggregation that occurs in synucleinopathies. Diagnostic of human prion diseases.

EDUCATION AND TRAINING

2018- today

Ph.D. course in Molecular Biology

Scuola Internazionale Superiore di Studi Avanzati, Trieste (Italy)

2018

Introductory course to animal experimentation

Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milan (Italy)

2018

Qualification to practice as a biologist

Università degli Studi di Milano, Milan (Italy)

2015 - 2017

Master's degree in Neurobiology

Università degli Studi di Pavia, Pavia (Italy)

2011 - 2015

Bachelor's degree in Biological Sciences

Università degli Studi di Catania, Catania (Italy)

ACHIEVEMENTS AND AWARD

Awards

Premio Airalzh 2021: Award from the Associazione Italiana Ricerca Alzheimer (Airalzh) for the best oral communication under 35.

Best Paper Award: Award for the best publication from the Translational Neurodegeneration Journal.

Grants

Besta intramural funds (5xMille): Identification of early and peripheral biomarkers predictive of Parkinson's disease and dementia with Lewy bodies (2021-24) Role: Co-PI.

TECHNICAL SKILLS

•Basic istological, istochemical and immunoistochemical procedures execution.

•Tissue homogenization, SDS-PAGE, Western blot, Protein Misfolding Cyclic Amplification (PMCA), Real-Time Quaking Induced Conversion (RT-QuIC), ELISA and BCA techniques.

- DNA and RNA extraction from tissues.
- Exosome extraction from urine, plasma, serum and CSF.
- Transmission Electron Microscopy analyses.
- Mice intraperitoneal anesthesia, intracerebral inoculation, intracardiac perfusion and organs harvesting.
- Human prion diseases diagnostic.