## PERSONAL INFORMATION

## Cinzia Cagnoli

- Fondazione IRCCS Istituto Neurologico Carlo Besta UO Epilettologia Clinica e Sperimentale
   Address Via Amadeo 42, 20133 Milano
- 🔀 cinzia.cagnoli@istituto-besta.it

Gender: F | Nationality: Italian

ORCID: 0000-0001-6863-6687

WORK EXPERIENCE	
06/2020 – presente	Italian NHS Researcher
	Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan.
12/2016 - 06/2020	<ul> <li>Responsible of the projects studying pathogenetic mechanisms of Spinal Muscular Atrophy (SMA)</li> <li>Referent for the MALDI mass spectrometry facility</li> <li>Contract Researcher</li> </ul>
	Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan.
01/2016 - 06/2017	<ul> <li>Responsible of the projects studying pathogenetic mechanisms of Spinal Muscular Atrophy (SMA)</li> <li>Faculty Member and Vocational School Teacher</li> </ul>
	Scuola d'Arte Fantoni, Azienda Bergamasca Formazione, Istituto Scolastico Sistema, Bergamo
11/2012 - 08/2015	<ul> <li>Applied Chemistry and Applied Biology courses for the Restoration Technician School.</li> <li>Cosmetology; Hygiene, physiology and chemistry courses in Vocational Schools.</li> <li>Researcher</li> </ul>
	Fondazione Filarete for Biosciences and Innovation, Milan
11/2011 - 10/2012	<ul> <li>Referent for Cell Model Systems Technology Platform (research, technology transfer, scientific and technical support to customer)</li> <li>Researcher</li> </ul>
	University of Milan, Department of Medical Biotechnology and Translational Medicine, Milan
12/2004 - 10/2011	<ul> <li>Responsible of a project on CNS molecular mechanisms of a commercial herbal remedy for menopausal symptoms (laboratory of Prof. F. Scaglione)</li> <li>Researcher</li> </ul>
	University of Milan, Department of Medical Biotechnology and Translational Medicine, Milan
01/2000 - 07/2004	<ul> <li>Technical and scientific assistance to the different projects of the laboratory led by Prof. M. Matteoli</li> <li>Main topics: Communication between neuronal and non-neuronal cells in CNS; Secretory pathways in non-neuronal CNS cells and their involvement in neuropathology.</li> <li>Pharmacist</li> </ul>
	Farmacia Dr. Guerra, Verdellino (BG).
09/1996 - 12/1999	<ul> <li>Dispensation of prescription medications, provision of OTC medications and dietary supplements, patient health monitoring and advice.</li> <li>Post-doctoral position</li> </ul>
02/1994 - 07/1996	Swiss Federal Institute of Technology (ETH), Institute of Biochemistry, Zurich (CH).
	<ul> <li>Responsible of the project: Isolation and identification of phosphorylated proteins in brain contactin/F11 signal transduction pathway (laboratory of Prof. K. Winterhalter)</li> <li>Responsible for training of undergraduate and PhD students</li> <li>Research Fellow</li> </ul>
	Allegheny Singer Research Institute (ASRI), Neuroscience Research Center, Allegheny Campus of the Medical College of Pennsylvania, Pittsburgh PA (USA)
	<ul> <li>Main project: Molecular mechanisms of apoptosis in <i>in-vitro</i> neurotoxicity models (lab of Dr. H. Manev)</li> </ul>
EDUCATION AND TRAINING	

11/1991 - 11/1995	PhD degree
	University of Milan, Department of Pharmacy, Milan
	<ul> <li>Neuropharmacology, neurotoxicology, biochemistry and cellular biology techniques, cell culture.</li> <li>Dissertation on "Role of apoptosis and protein kinase inhibition by isoquinolinsulfonamides in <i>in-vitro</i> models of neurotoxicity".</li> </ul>
11/1992	Scientific qualification for the practice of the pharmacist profession
	University of Milan, Department of Pharmacy, Milan
03/1992-06/1992	<ul> <li>Pharmacology, pharmaceutical technology and legislation</li> <li>Post-graduate Pathology Course</li> </ul>
	University of Milan, Department of Pharmacy, Milan
10/1985 - 07/1991	<ul> <li>Immunology, oncology, infective diseases, cardiovascular pathologies.</li> <li>Master's degree in Pharmaceutical Chemistry and Technology</li> </ul>
	University of Milan, Department of Pharmacy, Milan
	<ul> <li>Chemistry, Biochemistry, Anatomy, Physiology, Pharmacology and Molecular pharmacology, Mathematics, Physics, Pharmaceutical technology and industry, Pharmaceutical legislation</li> </ul>
ACHIEVEMENTS AND AWARD	
Grants	- 2017-2022: Annual donations from Girotondo Onlus SMA patient organization for research projects on pathogenetic mechanisms Spinal Muscular Atrophy) Amont founded: € 20.000/year for 2017-2020; € 15.000/year for 2021-2022. Role: Co-PI
	- 2020-2021: Research Grant 2019 /R-single/065 from AISM-FISM. Title: The role of T-helper- released extracellular DNAs (THREDs) in autoimmune inflammation and neurodegeneration of the central nervous system. Duration: March 2020-October 2021. Amount funded: € 75,000. Role: Collaborator
	<ul> <li>2017: Grant GPP13081 Fondazione Telethon. Title: Relevance of the axonal SMN protein (a-SMN) for spinal muscular atrophy: novel cell models, transgenic mice and therapeutic approaches. Duration: December 2014- December 2016 extended to October 2017. Amount funded: € 166,500. Role: Co-PI</li> <li>1995: ASRI Intramural Grant. Title: c-myc and neuronal apoptosis. Duration: 1year. Amount funded:</li> </ul>
Detente	\$ 10,000. Role: PI
Patents	"Proteins and/or peptides for prevention and/or cure of neurodegenerative diseases". Referent in FINCB
TECHNICAL SKILLS	
	<u>Biochemistry/molecular biology</u> : subcellular fractionation, synaptosomal and PSD purification. 1D- /2D-PAGE, WB analysis, ELISA. Immunoprecipitation/co-immunoprecipitation; Protein-protein interaction study. DNA/RNA extraction, RT-PCR. Cloning and DNA sequencing. In vitro transcription/translation experiments.
	Mass spectroscopy: MALDI MS of proteins and peptides, MALDI MS imaging on fresh frozen and FFPE tissues.
	<u>Cell culture and cell biology</u> : immortalized cell culture; primary cultures of murine neuronal and glial cells; transient transfection with liposomes, Ca-phosphate, nucleofection.
	<u>Microscopy</u> : IHC/IF, confocal microscopy, 3D-reconstruction of dendrites and axons, video microscopy, single cell calcium imaging.
	<u>Animal handling and surgical procedures</u> : transgenic colonies management, drug administration, functional tests, aortic perfusion and dissection of murine tissues (cerebral and spinal areas).
	Competent with programs for: Image analysis (ImageJ), stat analysis (Origin, Prism), protein analysis (swiss-Prot, Expasy, Mascott), MALDI mass spectrometry and imaging (FlexControl, FlexAnalysis, FlexImaging, SCiLS).
	Project/lab management; training, teaching and supervision of undergraduate and PhD students.