euro <i>pass</i>	Curriculum Vitae	Gessica Sala
PERSONAL INFORMATION	Gessica Sala	
	🔀 gessica.sala@unimib.it	
	Sex F Date of birth 27/08/1971 Nationality Italian	
POSITION 01/07/2024 – (deadline 30/06/2027)	Assistant Professor (Academic discipline: Neurology MEDS-12 hired on the Research Programme Age-It (Ageing Well in an Ageing Recovery and Resilience Plan, School of Medicine and Surgery, University of Milano-Bicocca, Mon	society) funded by the National
WORK EXPERIENCE		
01/07/2019 – 30/06/2024	Technologist Milan Center for Neuoroscience (<u>www.neuromi.it</u>), University of Mila • Coordination of research activities of NeuroMI, including: • design, elaboration and management of multidisciplinary research	
	Neuroscience, with particular reference to the translational aspects neuropsychiatric diseases, using cellular and molecular biology an - promotion of collaborations between members of the Center; - organization and promotion of international meetings and periodi	nd genetic techniques;
01/02/2018 - 30/06/2019	Post-doctoral fellow	
	Milan Center for Neuoroscience (www.neuromi.it), University of Mila	ano-Bicocca, Monza (Italy)
	 Translational research and project management in Neuroscience. 	
01/04/2005 - 31/01/2018	Post-doctoral fellow	
	School of Medicine and Surgery, Lab of Neurobiology, University of	Milano-Bicocca, Monza (Italy)
	 Study of pathogenic mechanisms (proteotoxicity, oxidative stress, discovery of biomarkers in neurodegenerative diseases using ex v and in vitro disease models. 	
01/05/2000 - 31/01/2016	Fellow	
	Dept. of Neuroscience and Biological Technologies, University of Mi	ilano-Bicocca, Monza (Italy)
	 Study of pathogenic mechanisms (oxidative stress and excitotoxic neurodegenerative diseases using ex vivo peripheral cells from pathogenerative) 	
01/05/1999 – 31/12/1999	Fellow	
	Associazione "La Nostra Famiglia", Bosisio Parini (LC), Italy	
	 Study of the release of cytokines and neurotrophic factors from cu brain trauma. 	ltured blood cells of patients with
01/03/1998 – 31/03/1999	Internship	
	Institute of Biomedical Sciences, University of Milan, Lab. of Neurob Monza (Italy)	iology at San Gerardo Hospital,
	 Research topic: neurodegenerative diseases. 	
EDUCATION AND TRAINING		
08/02/2023 (deadline 08/02/2034)	National Scientific Habilitation	
	as associate professor in "Sciences of health professions and applied	eu medical lechnologies" (U6/N1)



13/01/2005	PhD in Neuroscience
	School of Medicine and Surgery, University of Milano-Bicocca, Monza (Italy)
	 Study of glutamate uptake and oxidative stress in central and peripheral cellular models of amyotrophic lateral sclerosis
05/1999	Qualification for the profession of biologist University of Milan (Italy)
17/02/1998	Master's Degree in Biological Sciences University of Milan (Italy)
01/09/1996 – 17/02/1998	Internship Lab. of Electrophysiology, Dept. of Biochemistry and General Physiology, University of Milan (Italy)
	 Study of the adrenergic and cholinergic regulation in cardiac arrhythmias.
1990	Bachelor in Sciences Liceo Scientifico Statale "P. Frisi", Monza (Italy)
MAIN RESEARCH INTERESTS	
	- Study of pathogenic mechanisms (proteotoxicity, oxidative stress, inflammation, excitotoxicity) of neurodegenerative diseases, identification of new therapeutic targets and neuroprotective strategies in human cell models and patient-derived cells.
	- Discovery of new biomarkers for neurodegenerative diseases in patient-derived biological fluids and cells.
TEACHING ACTIVITIES	
	- Teacher of the Elective Course of Neurobiology, School of Medicine and Surgery, University of Milano-Bicocca from the academic year 2000-2001.
	- Adjunct professor of the Degree Course in Medical Biotechnology of the University of Milano-Bicocca for teaching: Applications in Neurology (supplementary to the official teaching: Experimental models of pathology) for the academic years 2005/2006, 2006/2007 and 2007/2008.
	- Supervisor of 13 Degree thesis in Medicine and Surgery, 10 in Medical Biotechnology (Specialized Degree), 4 in Biotechnology (First Level Degree), 1 in Biology (First Level Degree) at the University of Milano-Bicocca .
	- Co-tutor of 3 PhD projects in Neuroscience, Curriculum in Molecular and Cellular Biology, XXIX cycle, Dept. of Medicine and Surgery, University of Milano-Bicocca. Project title and thesis: Study of the autophagy-lysosome pathway in cellular models of Parkinson's disease (cycle XXIX); Mechanisms of TDP-43 accumulation in Amyotrophic Lateral Sclerosis (cycle XXXV); Identification of pathogenic mechanisms, therapeutic approaches and biological markers in Parkinson's disease (cycle XXXVII).
	- Tutor within the Virgilio Program (VP): a pregraduate track for the training of physician scientists in Italy (University of Milano-Bicocca - Humanitas University - University of Milan) funded by the Cariplo Foundation.
	- Eligibility of Higher Education Collaborators 2019 - Medical Area and Health Professions Area, University of Milano-Bicocca.



OTHER ACADEMIC/SCIENTIFIC ACTIVITIES

• Member of the Italian Society for Neuroscience (SINS), Federation of European Neuroscience Societies (FENS), and Milan Center for Neuroscience (NeuroMI).

• Associate Editor of "Frontiers in Molecular Neuroscience", section "Brain Disease Mechanisms" (Frontiers).

• Editorial Board member of "Acta Neurologica Scandinavica" and "BioMed Research International", section of Neuroscience (Wiley).

• Review Editor of "Translational Research in Dementia", specialty section of "Frontiers in Dementia" (Frontiers).

• Guest editor of the Special Issues "Advances in Biomarkers for Neurodegenerative Diseases", Biomolecules (MDPI), "Proteotoxicity and Neurodegenerative Diseases" and "Tracking Back Proteotoxicity in Neurodegenerative Diseases", International Journal of Molecular Sciences (MDPI).

• Reviewer activity for Peer Reviewed Journals including: Neurotoxicity Research, Neuroscience Letters, Neurobiology of Disease, Molecular and Cellular Neuroscience, Cellular and Molecular Life Sciences, Plos One, Molecular Neurobiology, Translational Neurodegeneration, Antioxidants, Brain Research, Expert Opinion on Therapeutic Patents, Parkinsonism and Related Disorders, Frontiers in Aging Neuroscience, Cell Biology International, Basic & Clinical Pharmacology & Toxicology, Cells, The Journal of Pathology, Scientifica, Scientific Reports.

LANGUAGE SKILLS Mother tongue Italian Other language(s) SPEAKING WRITING UNDERSTANDING Listening Reading Spoken interaction Spoken production English B2 B2 B2 B2 B2 FCE (2003) French B2 B2 B2 B2 B2 Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

Common European Framework of Reference for Languages



MEETING PARTICIPATION	 19/06/1999: Riunione annuale sezioni lombarde Società Italiana di Neurologia (SIN)- Società Neurologi Ospedalieri (SNO), Monza, Italy
	• 2-5/10/1999: XXXI Congresso Società Italiana di Neurologia (SIN), Centro Congressi, Verona, Italy
	 15/06/2000: Satellite Symposium of the Tenth Meeting of the European Neurological Society (ENS) sulla SLA, Università di Milano - Ospedale Maggiore Policlinico, Milano, Italy
	 22-25/05/2001: "Advances in molecular mechanisms of neurological disorders", European Society for Neurochemistry (ESN), Perugia, Italy

- 24-26/06/2001: The decade of the brain at the C. Mondino foundation, IRCCS C.Mondino, Pavia, Italy
- 3/11/2001: II Giornata monotematica ITINAD: Biological markers in Alzheimer Disease, Monza, Italy
- 09-12/07/2002: XIII Congresso della Societa' Italiana di Neuropsicofarmacologia (SINPF). Nuove frontiere in Neuropsicofarmacologia: dal genoma alla terapia, Milano, Italy
- 13-17/07/2002: 3rd Forum of European Neuroscience (FENS), Paris, France
- 26-28/09/2003: Congresso Nazionale della Società Italiana di Neuroscienze (SINS), Area di Ricerca del CNR, Pisa, Italy
- 10-14/07/2004: 4th Forum of European Neuroscience (FENS), Lisbon, Portugal
- 7-10/10/2004: 1° Convegno toscano "Patologie del motoneurone" (Ist. Neurologico C. Mondino), Buonconvento (SI), Italy
- 1-4/10/2005: Congresso Nazionale della Società Italiana di Neuroscienze (SINS) Ischia (NA), Italy
- 6-7/06/2008: PreMed 2008 Contribution of Laboratory Medicine to Primary Prevention, Monza, Italy
- 19-20/06/2008: 5th Meeting on Molecular Mechanisms in Neuroscience, Milano, Italy
- 12-16/07/2008: 6th Forum of European Neuroscience (FENS), Geneva, Switzerland
- 13-15/05/2011: V Meeting on the Molecular Mechanisms of Neurodegeneration, Milan, Italy
- 3-5/10/2013: XV Congress of the Italian Society of Neuroscience (SINS), Roma, Italy
- 28-30/05/2015: VI Meeting on the Molecular Mechanism of Neurodegeneration, Milan, Italy
- 6-8/07/2016: II International Meeting of the Milan Center for Neuroscience (NeuroMi): "Prediction and prevention of dementia: new hope", Milan, Italy
- 31/01/2017: International Symposium on Neurobiology Joint Meeting University of Milano-Bicocca and University of Surrey, Milan, Italy
- 13-15/09/2017: NeuroMi 2017 International Symposium "Personalised Medicine in Multiple Sclerosis", Milan, Italy
- 21-23/11/2018: member of Executive Board of 4th NeuroMI International Meeting "Brain Stimulation and Brain Plasticity: from Basic Research to Clinical Practice", Milan, Italy
- 20-22/11/2019: member of Executive Board of 5th NeuroMI International Meeting "Food for Brain: promoting health and preventing diseases", Milan, Italy
- 18/12/2020: member of Executive Board of "NeuroMI 2020: Virtual Annual Meeting of Members of the Milan Center for Neuroscience"
- 9-10/11/2021: member of Executive Board of "NeuroMI 2021: Virtual Annual Meeting of Members of the Milan Center for Neuroscience"
- 6-7/10/2022: "Human brains Preserving the brain Forum on neurodegenerative diseases", Fondazione Prada, Milan, Italy
- 4/11/2022: member of Executive Board of "NeuroMI 2022: Annual Meeting of the Milan Center for Neuroscience", Milan, Italy
- 10-11/5/2023: XII National Meeting Brain & Malnutrition 2023 "Nutrition and Neurodegeneration", Milan, Italy
- 16/5/2023: "Transcranial electrical stimulation: young researchers for new research lines", Aldo
 Devalli Contan Dispersionante di Osi
- Ravelli Center, Dipartimento di Scienze della Salute, Università degli Studi di Milano, Milan, Italy • 5/12/2023: member of Executive Board of "NeuroMI 2023: Annual Meeting of the Milan Center for
- Neuroscience", Milan, Italy
- Scheduled for 23-25/10/2024: member of Executive Board of 6° NeuroMI International Meeting "Brain Health and prevention of cognitive decline", Milan, Italy



Curriculum Vitae

RESEARCH PROJECT PARTICIPATION	 Design, development and management of multidisciplinary research projects in the field of Neuroscience, with particular reference to the translational aspects of research (national collaborative research projects - COFIN-PRIN and FIRB MIUR, Cariplo, ARISLA, Telethon, Ministry of Health - and international - European FP7 project, Michael J. Fox Foundation, Cure Parkinson's Trust, Thierry Latran). 					
	Participation in some - IVASCOMAR project				ces ALISEI (MIUR)	
	from 01-07-2013 to 3	1-12-2017;				
	- Network Enabled D			•		
	- project "Post-translational modifications of alpha-synuclein and isoforms deriving from alternative splicing as potential biomarkers of Parkinson's disease" funded by the University of Milano-Bicocca from 01-01-2014 to 31-12-2014;					
	- "Autophagy and intracellular signaling in Alzheimer's and Parkinson's disease" project funded by the University of Milano-Bicocca from 01-01-2015 to 31-12-2015.					
	- Collaborative project efficacy and safety in Fondazione Don C. C Ospedale San Raffact	neurological disorde Gnocchi, Univ. Milan	ers", funded by Regio o-Bicocca, IRCCS Is	one Lombardia. Proj tituto Clinico Human	ect partners: IRCCS	
MEETING ORGANIZATION	- Organization and p	romotion of NeuroM	international meetin	as (training, dissemi	nation and	
	networking events wi	th other institutions a	and companies, also	aimed at enhancing	research results):	
			NeuroMI Internation			
	Plasticity: from Basic Bicocca;	Research to Clinica	Practice, 21-23 No	vernber 2016, Unive	ersity of Millano-	
			5th NeuroMI Interna			
	promoting health and		s", 20-22 November 6th NeuroMI Interna			
	prevention of cognitiv					
	- Organization of ann	ual meetings of the	members of NeuroM	Ι.		
TECHNICAL SKILLS	- Known techniques: biochemistry techniques, cellular and molecular biology including cell cultures, preparation of primary cultures of human fibroblasts from skin biopsies, colorimetric and fluorimetric assays for the evaluation of vitality, necrosis, apoptosis and enzymatic activities, isolation of the different components of the blood, separation of cytosolic, nuclear, lysosomal and mitochondrial fractions, immunoprecipitation, Western blot, dot-blot, ELISA, HPLC, real-time pcr, gene silencing					
	techniques, biochemical assays with radiopharmaceuticals for the evaluation of membrane transporter activity (uptake) and receptor density (binding).					
	- Coordination of the different aspects of the clinical trials (collection, processing and transfer of data), including the preparation of the documentation for the local Ethics Committee and the maintenance of contacts with Sponsors and Patient Associations.					
	- Set up and management of biobanks of biological samples (CSF, plasma, serum, platelets, lymphocytes, monocytes, DNA, RNA) and primary cell lines (skin fibroblasts) obtained from patients and controls.					
DIGITAL SKILLS	SELF-ASSESSMENT					
	Information processing	Communication	Content creation	Safety	Problem solving	

Levels: Basic user - Independent user - Proficient user Digital competences - Self-assessment grid

Independent user

Independent user

Independent user

Independent user

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Basic user



Curriculum Vitae

OTHER SKILLS	 Ability to work independently and to coordinate a work team. Determination in achieving a goal and flexibility in dealing with critical issues. Planning and time management skills aimed at obtaining results in a short time.
SCIENTIFIC PRODUCTION	Author of 51 scientific publications in indexed journals, over 130 abstracts / communications at conferences and 6 book chapters. H-index: 22, citations: 2123, co-authors: 1536 (Scopus 26/07/2024). Detailed information in: Scopus <u>http://www.scopus.com/authid/detail.url?authorId=7102667482</u> and Google Scholar <u>https://scholar.google.it/citations?user=A4EoDXMAAAAJ&hl=it</u> .

I authorize the processing of my personal data (in compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003).

Date: 26/07/2024

Gessica Sala John John