

PERSONAL INFORMATION

Raffaella Lombardi

 Fondazione IRCCS Istituto Neurologico Carlo Besta
UO

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Gender: F | Nationality: Italian

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WORK EXPERIENCE

31 Dec 2019 - 30 Dec 2024

Italian NHS Researcher

Neuroalgology and Headache Unit

Laboratory: "Studio della biopsia cutanea e neuropatie periferiche"

IRCCS Foundation "Carlo Besta" Neurological Institute

Supervisor: Prof. G. Lauria Pinter

May 2014 - November 2019

Contract Researcher.

"Peripheral neuropathies in humans and animal models: in vitro studies, structural and functional analysis of nerve fibers, experimental protocols of neuroprotection and analgesia"

Neuroalgology and Headache Unit

Laboratory: "Studio della biopsia cutanea e neuropatie periferiche"

IRCCS Foundation "Carlo Besta" Neurological Institute

Supervisor: Dr. G. Lauria Pinter

May 2013 - May 2014

Contract Researcher.

"Peripheral neuropathies in humans and animal models: in vitro studies, structural and functional analysis of nerve fibers, experimental protocols of neuroprotection and analgesia"

Neuromuscular Disease Unit

National Neurologic Institute "C. Besta", Milan, Italy

Supervisor: Dr. M. Mantegazza

February 2007 - May 2013

Contract Researcher

"Applications of cutaneous biopsy in peripheral neuropathies"

Neuromuscular Disease Unit

National Neurologic Institute "C. Besta", Milan, Italy

Supervisor dr. Renato Mantegazza - dr. Giuseppe Lauria Pinter

May 2005 – May 2006

Contract Researcher

"Applications of cutaneous biopsy to the intra-epidermal nerve fibers and dermis nerve fibers quantification in experimental animal model of neuropathy and in the human peripheral neuropathies"

Neuromuscular Disease Unit

National Neurologic Institute "C. Besta", Milan, Italy

Supervisor dr. Renato Mantegazza - dr. Giuseppe Lauria Pinter

May 2002 – May 2004

Italian Ministry of Health Scholarship holder:

"Study of hereditary and acquired peripheral neuropathies"

Exp. Neurophysiology Lab.

National Neurologic Institute "C. Besta", Milan, Italy

Supervisor: Dr. D. Pareyson – dr. Albanese

Jan 2002 – July 2002

European Fellowsheep (ENS) in University Hospital Basel

Neurobiology – Basel (Suisse) - "Quantitative and immunohistochemical study of nerve fibers in anti-MAG neuropathy"

- Supervisor Prof. Andreas Steck
- May 2001 – May 2002 **Italian Ministry of Health Scholarship holder:**
“Study of hereditary and acquired peripheral neuropathies”
Exp. Neurophysiology Lab.
National Neurologic Institute “C. Besta”, Milan, Italy
Supervisor: Dr. D. Pareyson – dr. Albanese
- Sep 1999 – April 2001 **Italian Ministry of Health Collaborator** in the research program:
“Study of hereditary and acquired peripheral neuropathies”
Supervisor: Dr. D. Pareyson – dr. Albanese

EDUCATION AND TRAINING

- From 2002 to present Participation in national and international scientific conferences: oral communications and poster presentations
- 21/25 Nov 2016 Theoretical-practical course of high training on peripheral neuropathies
ASNP - Associazione Italiana Sistema Nervoso Periferico, Telesse Terme (BN) - Italy
- 01/04 July 2014 Training course on PNS development, function, damage, regeneration and remyelination
Lecce- Italy
- Dec 2012 Basic training course for researchers and personnel involved in experimental animal procedures (48 hours)
Istituto Zooprofilattico Sperimentale di Milano, Milan
- 30 June / 08 July 2003 **FENS SUMMER SCHOOL**
Ofir (Portogallo)
- Sept 2000 **Qualified Biologist**
University of Milan
- July 1999 Graduated in Biology with full marks (100/110) at the University of Milan (Supervisor: Prof. E. Wank; Co-examiner: Dr. S. Franceschetti)
- Thesis title: “Na⁺ current PKC-dependent modulation in rat neocortical neurons”
- July 1992 Diploma at the Scientific High School “P. Frisi”, Monza (Italy)

ACHIEVEMENTS AND AWARD

- Editorial activity** From 2011 to present – Reviewer of papers for scientific journals: *Journal of Diabetes Research*, *European Journal of Neurology*, *Journal of the Peripheral Nervous System* e *Journal of Neuroscience Methods*
- Grants** May 2017 - P.I. of Grant GBS|CIDP Foundation with the project “Probing the role of skin biopsy in CIDP”

TEACHING ACTIVITY

- From 2004 to present I supervise early carrier scientists entering the field of peripheral pathologies and their training and work in the Laboratory of Skin Biopsy.
Co-supervisor of Early Scientific Research (ESR) - PAIN-Net - Marie Curie Training Networks (2018-2020) P.I. prof. Giuseppe Lauria Pinter

TECHNICAL SKILLS

- Immunohistochemistry
- Immunostochemistry and Immunofluorescence labeling to study somatic, autonomic, myelinic and

amyelinic nerve fibers in skin biopsy in different neurological diseases (CIDP, CMT, ALS, FM, GBS, synucleopathies)

- Intra-epidermal and dermal nerve fibres in sensory neuropathies quantification and evaluation
- Confocal images acquisition and analysis
- Culture cells
- Neurodegeneration study in dissociates cultures of rat DRG sensory neurons
- Campenot Culture System
- Molecular biology
- I.E.F. (isoelectrofocusing) of liquor and serum to evaluate the IgG intratecal synthesis
- PCR for factor II, factor V and omocystein
- Electrophysiology:
- Patch clamp technique: voltage clamp recordings in whole-cell configuration in pyramidal neurons dissociated from rat neocortex.