PERSONAL INFORMATION

Margherita Marchi

📍 Fondazione IRCCS Istituto Neurologico Carlo Besta
UO Neurologia 3
Indirizzo: Via Giovanni Antonio Amadeo, 42, 20133 Milano MI

✉ margherita.marchi@istituto-besta.it

Sesso: F | *Nazionalità:* ITA

ORCID: https://orcid.org/0000-0002-5098-8534

WORK EXPERIENCE

June 2020 - ongoing

Fixed-term contract as health researcher
Fondazione IRCCS Istituto Neurologico C. Besta, via Celoria 11, Milano

- Genetic analysis of patients with neuropathic pain, coordination of the genetics laboratory activities related to the Neurology Unit 3, participation in conferences, drafting of scientific articles

Apr 2015 - June 2020

COCOCO contract
Fondazione IRCCS Istituto Neurologico C. Besta, via Celoria 11, Milano.

- Genetic analysis of patients with neuropathic pain, genetics laboratory activities coordination, dissemination activity in conferences, drafting of scientific articles.

Jul 2013 - Apr 2015

COCOPRO contract
Istituto Auxologico Italiano, Via Giuseppe Zucchi, 18, 20095 Cusano Milanino MI

- Gene mutations analysis and new pathogenic mechanisms in patients with Rett Syndrome.

Jan 2008 - Dec 2012

COCOPRO contract
Istituto Auxologico Italiano, Via Giuseppe Zucchi, 18, 20095 Cusano Milanino MI

- DNA extraction from biological specimens, PCR, haplotype analysis, MLPA, sanger sequencing, gene expression analysis, identification and characterization of gene mutations.

Jan 2007 - Dic 2007

Fellowship
Istituto Auxologico Italiano, Via Giuseppe Zucchi, 18, 20095 Cusano Milanino MI

- DNA extraction from biological specimens, PCR, haplotype analysis, MLPA, sanger sequencing, gene expression analysis, identification and characterization of gene mutations.

Jul 2006 - Dec 2006

Consultancy contract
Fondazione IRCCS Ca' Granda-Ospedale Maggiore Policlinico, Via Francesco Sforza, 35, 20122 Milano MI.

- Molecular biology studies in microbiology: pathogen microorganisms genotyping in Cystic Fibrosis.

EDUCATION AND TRAINING

Oct 2017

Registration in the National Order of Biologists .
Number: AA_078722.
Università degli Studi di Pavia PV

Jun 2016

Qualification to practice as a biologist.
Università degli Studi di Pavia PV

2006 - 2010

Post-graduate degree in medical genetics
(CEE-a norma del D.L.vo n.368 del 17 agosto 1999)
Facoltà di Medicina e Chirurgia, Università degli Studi di Milano

1998 - 2004	**Master's degree in Medical Biotechnology**
	Facoltà di Medicina e Chirurgia, Università degli Studi di Milano

1998	**Baccalaureate classical studies**

ACHIEVEMENTS AND AWARD

Awards   Best talk - Bergamo, *Settima Riunione Annuale dell'Associazione italiana per lo studio del Sistema Nervoso Periferico (ASNP).*

Grants   5XMILLE 2018 – RC 2018. Project: PAIN RISK - Risk stratification of painful peripheral neuropathies (CO-Principal Investigator) - (RC18.4)

TEACHING ACTIVITY

13 Nov 2019   Genetic & Pain
Dip. di Scienze Ambientali, Informatica e Statistica. Università Ca' Foscari Venezia.

27-28 Nov 2017   Next Generation Sequencing: clinical applications.
Dip. di Scienze Ambientali, Informatica e Statistica. Università Ca' Foscari Venezia.

TECHNICAL SKILLS

Extraction of nucleic acids from peripheral blood, saliva, cell cultures; Gene amplification (Polymerase Chain Reaction) and primers design; Search for mutations, deletions and gene variants using specific gene amplification techniques; Direct sequencing - Sanger sequencing; Haplotypic and allelic segregation analysis; Reverse transcription (RT-PCR); Gene expression studies by Realtime-PCR, TaqMan and SybrGreen; Search for deletions using the MLPA kit, MRC-Holland; preparation of Next Generation Sequencing libraries, analysis of data from NGS. Interpretation of gene variants according to the ACMG guidelines.

Main word processing and calculation programs, Windows environment, Mac OX. Scientific databases and programs for genomic data analysis. Analysis and processing of NGS data, application of filtering pipelines and prioritization of gene variants. Genetic analysis for the identification of candidate genes in sporadic cases; in trios and cohorts. Design of genetic studies in Mendelian disorders or complex conditions. Coordination and tutoring for theses degree. Scientific dissemination activities (national and international meetings and conferences). Scientific writing.