

Curriculum vitae

PERSONAL INFORMATION

Name: **Valentina Pegoraro**
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Nationality: Italy
Date of birth: 13 April 1986

EDUCATION

4 April 2016 **PhD in Medical, Clinical and Experimental Sciences, Neurosciences address**
University Padua - Italy
Thesis title **"MicroRNA and Protein Molecules as Biomarkers of ALS Clinical Subtypes"**
Supervisor **Prof. Corrado Angelini, MD**

10 December 2010 **Master Degree in Industrial Biotechnology, functional genomics and proteomics address**
University Padua- Italy
Thesis title **'Mutual regulation of Ankrd2 and Nf-kB in muscle differentiation'**
Supervisor **Prof. Gerolamo Lanfranchi**

26 September 2008 **Degree in Biotechnology**
University University of Padua
Thesis title **"Cloning, Expression, Purification and crystallization of HP1286 Helicobacter Pylori "**
Supervisor **Prof. Giuseppe Zanotti**

June 2005 **High school leaving qualification in Scientific studies**
High School: Liceo Scientifico G.B.Benedetti, Venice, Italy

WORK EXPERIENCE

- 16 October 2019 to date**
Section
Position
Main activities and Responsibilities
- SAN CAMILLO IRCCS S.R.L. società unipersonale**
Via Alberoni 70, 30126 Venice-Italy
Clinical Neurobiology research group, Neuromuscular Unit
Post-Doctoral Researcher
-Study of new biomarkers in rare and neuromuscular diseases, correlation of miRNAs expression profile with muscle imaging (MRI).
-Operative, practice and networking management of Biobank BBMRNR
- 10 September 2018- 9 September 2019**
Section
Position
Main activities and Responsibilities
- San Camillo Hospital IRCCS, Research and Rehabilitation Center**
Via Alberoni 70, 30126 Venice-Italy
Clinical Neurobiology research group, Neuromuscular Unit
Post-Doctoral Researcher
-Translational research in Neurobiology: research of new tissue, molecular and protein biomarkers in rare neuromuscular and neurodegenerative diseases (ALS, DM1, NLSD, LGMD, Becker) and during rehabilitation protocol.
-Operative, practice and networking management of Biobank 'Rare Diseases and Neurorehabilitation' (BBMRNR) present at IRCCS San Camillo part of the Italian node BBMRI-IT and the European node BBMRI-ERIC.
- Operative support for pharmacological studies.
- Responsible of Biobank Operative Unit for clinical risk since March 2019.
- 1 June 2018- 31 August 2018**
Position
Main activities and Responsibilities
- Telethon Foundation**
Researcher
Multicenter project Telethon GGP14066D on NLSD (Neutral Lipid Storage Disease). Growing of primary cell culture derived from skin biopsies (fibroblasts). MicroRNA expression in serum and cell cultures studies in these rare patients and correlation with muscle MRI imaging.
- 1 June 2016- 31 May 2018:**
Section
Position
Main activities and Responsibilities
- San Camillo Hospital IRCCS, Research and Rehabilitation Center**
Via Alberoni 70, 30126 Venice-Italy
Studies Center Neuromuscular Diseases: **Molecular Neurobiology Research Laboratory**
Post-Doctoral Researcher
Translational research in Neurobiology inside the Current Research line 1 'Neurobiological Assumptions of functional recovery', supervisor Prof. Corrado Angelini.
Study of new biomarkers (muscles and serum microRNAs and cell cultures in many neuromuscular and rare diseases (ALS, DM1, NLSD-M, LGMD, FSHD).
Management of Biobank 'Rare Diseases and Neurorehabilitation' (BBMRNR) present in IRCCS San Camillo. Participation in 3 Multicenter Telethon projects on NLSD-M (GGP14066), on FSHD (GUP13012) and on MGDS (GUP13013) coordinated by Prof. Angelini.
Participation in sample processing for many pharmacological studies on Parkinson's disease coordinated by Prof. Antonini.
Supervision and coordination of other staff members.
- 1 February- 31 May 2016:**
Section
Position
Main activities and Responsibilities
- San Camillo Hospital IRCCS**
Via Alberoni 70, 30126 Venice-Italy
Studies Center Neuromuscular Diseases: **Molecular Neurobiology Research Laboratory**
Fellow Telethon
Multicenter project Telethon GUP13012 'Network dystrophy FSHD'
Biomarkers study in patients with Facio-Scapulo-Humeral Dystrophy (FSHD) in a Multicenter Telethon project 'Network Dystrophy FSHD'. Interaction with patients to create network, storage, separation of biological material, study and analysis of circulating microRNAs in serum.
- 1 January 2013- 31 December 2015**
Section
- San Camillo Hospital IRCCS**
Via Alberoni 70, 30126 Venice-Italy
Studies Center Neuromuscular Diseases: **Molecular Neurobiology Research Laboratory**
Neurosciences PhD student

Main activities and
Responsibilities

Translational research in Neurobiology inside the Current Research line 1 'Neurobiological Assumptions of functional recovery', supervisor Prof. Corrado Angelini MicroRNA study in serum and muscle biopsy for the study of new biomarkers in various neuromuscular diseases: ALS, DM1, LGMD. Operating charge of the study multicenter Telethon GUP13013 entitled "Development of an Italian collaborative network for the collection of patients with muscle glycogen storage disease: the creation of a national register and study of the natural history of the MGDS" MicroRNA expression and primary cell cultures studies in patients homozygous and heterozygous for the gene in PNPLA2 of Lipid Accumulation disease preparation of primary cell cultures of human fibroblasts derived from skin biopsies. Molecular and biochemical markers assessment in patients undergoing rehabilitation treatment. Participation in the management of the Biobank 'Rare Diseases and Neurorehabilitation' (BBMRNR) part of the Italian node BBMRI-IT and the European node BBMRI-ERIC. Participating, as a biotechnologist, in the following pharmacological studies: BIA (March 2013-November 2014) and Kyowa (January 2015-present) on Parkinson's disease, doctor responsible for our center Dott. Angelo Antonini. Studio ECU-MG-301 (2014-.2015) on Myasthenia Gravis, responsible for our center Prof. Corrado Angelini.

**15 February- 31December
2012**
Section
Position

San Camillo Hospital IRCCS
Via Alberoni 70, 30126 Venice-Italy
Molecular and cell-cultures laboratory
CO.CO.PRO, Project Collaborator

Main activities and
Responsibilities

Translational research in neurobiology, study of various genetic polymorphisms with classical methods and HRM assays, neuronal cell cultures, management of Biobank BBMRNR.

**11 September- 21 December
2011**
Section

San Camillo Hospital IRCCS
Via Alberoni 70, 30126 Venice-Italy
Molecular and cell-cultures laboratory

Position

Volunteer attendance

Main activities

Research in cellular biology, studies on neuronal cell cultures.

LANGUAGE SKILLS

Italian
English
French

Mother tongue.
B2 level: understanding, listening, oral and written production.
School level.

TECHNICAL SKILLS

BIOBANK AND CLINICS FOLDERS: more seven years working in Biobanking, experience in drafting standard operating procedures (SOP). Knowledge of standard quality ISO 9000:2015 and ISO 20387:2018 "Biobanking- General requirements for Biobanking" certifications and legal, social ethical aspects. Familiarity in the use and interpretation of computerized medical records and managing databases containing clinical and confidential data. Experience in storage, conservation and handling human blood, serum, plasma, DNA, RNA, saliva, cell cultures. Preparation of slides and smears of blood. Networking with BBMRI-Italian node and other Italian Biobank and patient's association. European Biotech week years 2017, 2018.

BIOCHEMICAL TECHNIQUES: MAGPIX and ELISA techniques, SDS-PAGE and WESTERN BLOT.

BIOINFORMATICS AND STATISTICS: knowledge of the main databases for building primers and sequence alignment (Primer3, Blast ..), and the main prediction sites and interaction of micro-RNA and target gene (miRecords, Miranda, TargetScan ...). Excellent knowledge of Microsoft Office (Word, Excel, and Access) and use search engines such as PubMed and Bibliosan platform. Good capacity for statistical analysis (R-studio program).

CELL CULTURES: preparation of samples and solutions in sterility, ability to work under a laminar flow hood, experience and growth of human primary cells (skin fibroblasts from biopsy entire process), neural cell lines PC12 and crops including SHSY5Y, experience in culture, differentiation and stable and transient transfection of murine C2C12 muscle cells. Preparation of bacterial cultures, cloning extraction and purification of plasmid DNA

MOLECULAR BIOLOGY: DNA and RNA extraction techniques, using the kit and Trizol method from blood, serum, plasma, cells and muscle biopsies. Gel electrophoresis, PCR, real-time PCR relative and absolute, HRM assay, microRNA isolation from serum, plasma, muscle biopsies and cells, and reverse transcription assays with TaqMan probes.

PHARMACOLOGICAL STUDY: experience in handling and storage of samples. Knowledge of GCP (good clinical practice) and MTA (material transfer agreement) for international studies.

OTHER SKILLS AND COMPETENCES

RESPONSIBILITY:

- Referent of Biobank Operative Unit for clinical risk since March 2019

EDITORIAL BOARD MEMBERS/REVIEWER:

-Mitochondrion.

ORGANIZATION AND RELATIONAL SKILLS: Good experience in organizational management of a lab (including contacts with tool and product providers) and in the planning and execution of experiments and related activities. Punctual and accurate in delivering work.

Excellent ability to work in a group matured in multiple situations where collaboration between different people and the use of common spaces and equipment was essential.

Experience of interaction with specific hospital and university staff of different levels (eg experience gained during the establishment of the biobank to follow ISO quality standards and exchanging ideas with other groups belonging to the same multicenter projects). Good Experience in interaction with patients matured during Telethon Projects for Natural Patient History Study and Collaboration with National Registries of Rare Diseases.

TRAINING/TEACHING ACTIVITIES: I had training new laboratory staff for both molecular biology, biochemistry, cell culture, instrumentation, and the ISO 9000:2016 and procedures of the biobank present at IRCCS San Camillo.

I taught Natural Science, Chemistry, and Microbiology in F. Algarotti high school, Venice, 17-28 October 2014.

TRAINING COURSES

- **WEBCON series "On the new biobanking standard ISO 20387:2018 Biotechnology-Biobanking-General requirements for Biobanking"**, 23 sessions-April-December 2019, BBMRI.
- **Workshop "Rules on informed consent and advance processing provisions"** 14 January 2019, Venice.
- **"How does the informed consent change with new GDPR and updates of national legislation - practical laboratory starting from the consents in use"** 19 November 2018, BBMRI web-conference
- **Neuromuscular days 2018**, VI ed., 26-28 September 2018, Venice
- **AIM 2018**, From Basic Muscle Science to Translational Myology. Genoa, June 6-9, 2018
- **Spring Padua Muscle Days**, the basic and applied myology. Padua, March 2018
- **EAN (European Academy of Neurology) 2017**. Amsterdam, June 2017.
- **Upgrade Course Morphology and Histopathology of Muscle and Peripheral Nerves**, Padua May 2017
- **Testing for auto-antibodies in neurological disorders - Level 2**, EAN Copenhagen, May 2016
- **Motor symptoms refractory to L-DOPA in Parkinson's disease – Level 1**, EAN, May 2016
- **Diagnostic and therapeutical approach to muscle syndromes - Level 1**, EAN, May 2016
- **Spring School Bressanone**, 29-30 May 2015
- **Regain study investigator meeting 'ECU-MG-301 a randomized, double-blind, placebo-controlled, multi-center study to evaluate the safety and efficacy of Eculizumab in subjects with refractory generalized Myasthenia Gravis'**, Prague, Czech Republic, March 19, 2015
- **Course of Science Publishing and communication**, Prof John Funder, Padua 3-6 June 2014
- **Training and IATA certification**, Transporting Dangerous Goods, Mayo Medical Laboratories, 3050 Superior Drive NW, Rochester, MN 55901, 16 December 2014.
- **Training in Good Clinical Practice (GCP)**.
- **Summer School** september 2013, student PhD activities

AWARDS

1. Winner of the fellow for the attendance in the EAN (European Academy of Neurology) conference, to be held in Amsterdam from 23 to 27 June 2017 for the presentation of two e-posters and two e-presentation.
2. Grant for presence Copenhagen EAN 2016, three e-poster presentations.

PRESENTATION AT CONFERENCES

1. Oral Communication entitles **"Clinical and MRI correlations in TNPO3 Limb-Girdle Muscular Dystrophy"** Neuromuscular days 2018, VI ed., 26-28 September 2018, Venice.
2. Teaching course entitles **"MicroRNAs and the Biobank's organization"** European Biotech week 2018, Venice.
3. Oral Communication entitles **"MyomiRNA and inflammatory microRNAs in muscle of sporadic and genetic ALS"** '53° Congress of Italian Association of Neuropathology and Clinical Neurobiology, 43°Congress of Italian Association of Cerebral Aging Research ' 18 May 2017, Padua.
4. Invited Speaker with presentation entitles **"Role of microRNAs in Rehabilitation of Neuromuscular Diseases"**, Scientific seminar, 18 January 2017, IRCCS San Camillo, Venice.
5. Oral Communication entitle **"MicroRNAs as Biomarkers in ALS"**, 29-30 May 2015, PhD Spring School Bressanone
6. Invited Speaker with presentation entitle **"MyomiR as circulating biomarkers in ALS"**, training course 'New approaches and new technologies in the ALS assistance care', 27 February 2015, Venice.
7. Oral Communication entitles **"Circulating Myo-miRNAs as biomarkers in ALS"**, Seminar presentation of PhD students of the XXVIII cycle, 20 October 2014, Padua.

LIST OF PUBLICATIONS

1. Pegoraro V, Missaglia S, Marozzo R, Tavian D, Angelini C. **MiRNAs as biomarkers of phenotype in neutral lipid storage disease with myopathy.** Muscle Nerve. 2019 Nov 15. doi: 10.1002/mus.26761. [Epub ahead of print]
2. Pegoraro V, Marozzo R, Angelini C. **MicroRNAs and HDAC4 protein expression in ALS muscle.** Clinical Neuropathology, Accepted
3. Angelini C, Marozzo R, Pegoraro V. **Current and Emerging Therapies in Becker muscular dystrophy (BMD).** Acta Myologica, Accepted.
4. Cenacchi G, Papa V, Pegoraro V, Marozzo R, Fanin M, Angelini C. **Danon disease: review of natural history and recent advances.** Neuropathol Appl Neurobiol. 2019 Nov 7. doi: 10.1111/nan.12587. [Epub ahead of print] Review.
5. Cenacchi G, Papa V, Costa R, Pegoraro V, Marozzo R, Fanin M, Angelini C. **Update on polyglucosan storage diseases.** Virchows Arch. 2019 Jul 30. doi: 10.1007/s00428-019-02633-6. [Epub ahead of print] Review.
6. Angelini C, Pegoraro V & Cenacchi G. **The clinical and molecular spectrum of autosomal dominant limb-girdle muscular dystrophies focusing on transportinopathy.** Publish on line 26 May 2019. <https://doi.org/10.1080/21678707.2019.1622412>.
7. Angelini C, Marozzo R, Pinzan E, Pegoraro V, Molnar MJ, Torella A, Nigro V. **A new family with transportinopathy: increased clinical heterogeneity.** Ther Adv Neurol Disord. 2019; 12:1-7 <https://doi.org/10.1177/1756286419850433>
8. Pegoraro V, Merico A, Angelini C. **MyomiRNAs Dysregulation in ALS Rehabilitation.** Brain Sci. 2019; 10;9(1). pii: E8. doi: [10.3390/brainsci9010008](https://doi.org/10.3390/brainsci9010008).
9. Basso V, Chakraborty J, von Stockum S, Giacomello M, Peggion C, Ottolini D, Tasca E, Pegoraro V, Sorgato C, Angelini C, Antonini A, Brini M and Ziviani E. **Regulation of Endoplasmic Reticulum-Mitochondria contacts by Parkin via Mfn2.** Pharmacol Res. 2018;138:43-56. doi: 10.1016/j.phrs.2018.09.006.
10. Di Stadio A, Pegoraro V, Giaretta L, Dipietro L, Marozzo R, Angelini C. **Hearing impairment in MELAS: new prospective in clinical use of microRNA, a systematic review.** Orphanet J Rare Dis. 2018;13:35. doi: 10.1186/s13023-018-0770-1. Review.
11. Howard JF Jr, Utsugisawa K, Benatar M, Murai H, Barohn RJ, Illa I, Jacob S, Vissing J, Burns TM, Kissel JT, Muppidi S, Nowak RJ, O'Brien F, Wang JJ, Mantegazza R; **REGAIN Study Group. Safety and efficacy of eculizumab in anti-acetylcholine receptor antibody-positive refractory generalised myasthenia gravis (REGAIN): a phase 3, randomised, double-blind, placebo-controlled, multicentre study.** Lancet Neurol. 2017;16(12):976-986. doi: 10.1016/S1474-4422(17)30369-1. Epub 2017 Oct 20. Erratum in: Lancet Neurol. 2017;16(12):954.
12. Pegoraro V, Merico A, Angelini C. **Micro-RNAs in ALS muscle: Differences in gender, age at onset and disease duration.** J Neurol Sci. 2017; 380:58-63.
13. Fritegotto C, Ferrati C, Pegoraro V, Angelini C. **Micro-RNA expression in muscle and fiber morphometry in Myotonic Dystrophy Type 1.** Neurol Sci. 2017 Jan 11. doi: 10.1007/s10072-017-2811-2.
14. Tasca E, Pegoraro V, Merico A, Angelini C. **Circulating microRNAs as biomarkers of muscle differentiation and atrophy in ALS.** Clin Neuropathol. 2016; 35:22-30.
15. Valletlunga A, Pegoraro V, Pilleri M, Biundo R, De Iulius A, Marchetti M, Facchini S, et Al. **The MTHFR C677T polymorphism modifies age at onset in Parkinson's disease.** Neurol Sci 2014; 35:73-77, Neurol Sci 2014; 35:73-77.

I authorize the processing of my personal data in the CV pursuant to the Italian Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and the GDPR (EU Regulation 2016/679).

Venice, November 2019

Dott.ssa Valentina Pegoraro

Valentina Pegoraro