

Curriculum Vitae



Personal information

First name(s) / Surname(s)	Maria Rosaria Pricolo
Address(es)	Via Nazionale 95 – 84018 Scafati (SA)
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Nationality	Italian
Date of birth	29/01/1987
Gender	Female

Professional experience

Date	September 2017-to date
Occupation or position held	Long-term stay for PhD Project
Main activities and responsibilities	-Thermal and Mechanical stability of the domain C4 of Myosin Binding Protein C (cMyBPC) -Pathogenic mechanism of unknown mutations localized in cMyBPC which cause Hypertrophic Cardiomyopathy
Type of activity or sector	Molecular biology, single-molecule mechanobiochemistry, Inherited cardiomyopathies
Name of the employer	Department of Molecular Mechanics of the Cardiovascular System - under the supervision of Asst Prof J. Alegre Cebollada Fundaci3n CNIC, Madrid-Spain
Date	November 2016-May 2017
Occupation or position held	Erasmus+ Traineeship: Cardiovascular Research Experience
Main activities and responsibilities	-Pathogenic mechanism in Hypertrophic Cardiomyopathy caused by mutations in MYBPC3 -Molecular biology and cloning procedure to produce AFM-ready polyproteins -Optimization of minigene assays, nonsense mediated RNA decay
Type of activity or sector	Molecular biology, single-molecule mechanobiochemistry, Inherited cardiomyopathies
Name of the employer	Department of Molecular Mechanics of the Cardiovascular System - under the supervision of Asst Prof J. Alegre Cebollada Fundaci3n CNIC, Madrid-Spain
Date	2015 to date
Occupation or position held	3st year of the PhD Program in Molecular Medicine and Medical Biotechnology (XXXI cycle)
Main activities and responsibilities	-Study of the pathogenetic basis of Hypertrophic Cardiomyopathy -Functional analysis of unknown mutations localized in non-coding regions by building minigene or direct analysis of mRNA, in order to evaluate the splicing alterations
Type of activity or sector	Molecular biology, Molecular Genetics, Inherited cardiomyopathies
Name of the employer	Department of Molecular Medicine and Medical Biotechnology - under the supervision of Assoc Prof G. Frisso University of Naples Federico II, Naples-Italy

Date	2013-2015
Occupation or position held	Postgraduate student in Clinical Biochemistry
Main activities and responsibilities	Search for mutations and/or polymorphisms associated or predisposing to cardiomyopathy using sequence analysis of sarcomeric genes and genes encoding channels voltage employees
Type of activity or sector	Molecular medicine
Name of the employer	Department of Molecular Medicine and Medical Biotechnology University of Naples Federico II, Naples-Italy
Date	2013-2014
Occupation or position held	Learning and vocational training
Main activities and responsibilities	DNA extraction from peripheral blood, PCR amplification of genes implicated in cardiomyopathies and analysis of electropherogram obtained by sequencing
Type of activity or sector	Molecular medicine
Name of the employer	U.O.C. Clinical Molecular Biology of D.A.I. of Laboratory Medicine, the University Hospital Federico II
Date	2009-2012
Occupation or position held	Graduate internship
Main activities and responsibilities	-Study of the antiproliferative effects of carnosine on cells of colorectal carcinoma HCT116; -Role of the DNA-damage-binding protein (DBB1) in the E3 ubiquitin ligase complex; -Study of photoprotective action of natural antioxidants against DNA damage caused by exposure to ultraviolet radiation UVB.
Type of activity or sector	Molecular biology, cancer research, molecular pathways, cellular biochemistry
Name of the employer	Department of Molecular Medicine and Medical Biotechnology University of Naples Federico II, Naples-Italy

Competitive Fellowships

Date	2016-2017
Type of Fellowship	Eramus+ Trainsheep Fellowship
Activity Place	Department of Molecular Mechanics of the Cardiovascular System Fundaci3n CNIC, Madrid-Spain
Date	2015-in progress
Type of Fellowship	PhD Fellowship from University of Naples Federico II
Activity Place	Department of Molecular Medicine and Medical Biotechnology University of Naples Federico II, Naples-Italy

Education and training

Post-graduate training

Date	2013
Title of qualification awarded	Post-graduate Master's Degree in "Biotechnology Applied to Assisted Reproduction"
Principal subjects/occupational skills covered	Karyotype analysis, semen analysis, and artificial insemination.
Name and type of organisation providing education and training	Seconda Universit3 di Napoli- Faculty of Mathematical, Physical and Natural Sciences
Level in national or international classification	research-based

Date	2012
Title of qualification awarded	Qualification to practice the profession of Biologist
Name and type of organisation providing education and training	The University of Sannio

School graduation

Date	2012
Title of qualification awarded	Degree in Medical Biotechnology 110/110 Thesis title: "Effect of Carnosine on cell proliferation of colon cancer"
Principal subjects/occupational skills covered	Molecular and cellular biology, biochemistry, genetics, organic and inorganic chemistry, molecular oncology, gene therapy.
Name and type of organisation providing education and training	The University of Naples Federico II- Faculty of Biotechnological Science
Level in national or international classification	Masterly Degree-2nd cycle degree

Dates	2010
Title of qualification awarded	University Degree in Biotechnological Science 99/110 Thesis title: "The effects of ultraviolet radiation and cisplatin on DNA"
Principal subjects/occupational skills covered	Molecular and cellular biology, biochemistry, genetics, organic and inorganic chemistry, molecular oncology.
Name and type of organisation providing education and training	The University of Naples Federico II- Faculty of Biotechnological Science
Level in national or international classification	1nd cycle degree

Pre-university studies

Title of qualification awarded	Secondary school focusing on humanities at G. B. Vico in Nocera Inferiore (SA)
Level in national or international classification	Secondary School

Personal skills and competences

Native language	Italian
Other language(s) European level* (*Self-assessment)	English C1
Other language(s) European level* (*Self-assessment)	Spanish C1
Social skills and competences	Team player, Determination, Passion, High interpersonal skills.
Organisational skills and competences	- Ability to plan the laboratory works - Ability to problem solving

Technical skills and competences	<p>Acquired biochemistry-related skills:</p> <ul style="list-style-type: none"> • Circular Dichroism method • Expression of recombinant protein • Protein purification (Affinity Chromatography) <p>Acquired cellular and molecular biology skills:</p> <ul style="list-style-type: none"> • Construction and minigenes analysis to evaluate the splicing alterations; • Purification and nucleic acids analysis (DNA and RNA); • PCR, Real Time PCR and semi-quantitative PCR; • cDNA production, oligo design, cloning, mutagenesis, minipreps, digestions, ligations, DNA sequencing; • Analysis of protein products (western blot); • Cell cultures; • Assays of cell viability (Trypan Blue, MTT assay, assay ATP); • Identification of DNA damage (COMET ASSAY); • Immunoprecipitation assays. <p>Acquired reproduction skills:</p> <ul style="list-style-type: none"> • Basic skills in citogenetic (coltured amniocytes, chromosome banding); • Semen Analysis; • Morphological and functional investigations of sperm. <p>Use of laboratory equipment: microscope (electronic and fluorescence microscopy), instruments for the acquisition of biological imaging (Gel Doc), centrifuges, electrophoresis equipment, spectrophotometers (NanoDrop), micromanipulator.</p>
Computer skills and competences	<p>Bioinformatics Toolbox: CodonCode Aligner, Alamut, Human Splicing Finder (HSP), ESE Finder, Primer3.</p> <p>Operative systems: Windows and Macintosh;</p> <p>Microsoft Office: Word, Excel, PowerPoint, Outlook;</p> <p>Software database: PubMed, UCSC Genome Browser, Gene sources, Protein database</p> <p>Other program: Comet Assay program to analyse the comets</p>
Driving licence	Driving license class B
Annexes	
Scientific paper	<p><i>Frisso G, Detta N, Coppola P, Mazzaccara C, Pricolo MR, D'Onofrio A, Limongelli G, Calabrò R, Salvatore F</i> Functional Studies and In Silico Analyses to Evaluate Non-Coding Variants in Inherited Cardiomyopathies Int J Mol Sci. 2016 Nov 10;17(11)</p> <p><i>Iovine B, Iannella ML, Nocella F, Pricolo MR, Bevilacqua MA</i> Carnosine inhibits KRAS-mediated HCT116 proliferation by affecting ATP and ROS production Cancer Lett. 2012 Feb 28;315(2):122-8</p>

Conferences/Presentations

- 1) **MR Pricolo**, N. Detta, C. Mazzaccara, P. Coppola, M. Messere, F. Salvatore, G. Frisso
Functional Studies and in Silico Analyses to Evaluate Non-coding Variants in Inherited Cardiomyopathies
19th National Meeting of the Società Italiana di Genetica Umana (SIGU), Torino, Italy 23-26
November 2016
- 2) **Maria Rosaria Pricolo**, N. Detta, P. Coppola, A. Nolano, F. Salvatore, G. Frisso.
Altered pre-mRNA splicing caused by novel intronic mutations in sarcomeric genes
National Ph.D. Meeting. Salerno, Italy, April 7-9 2016. Abstract P.85
- 3) Nicola Detta, Cristina Liguori, Pamela Coppola, **Maria Rosaria Pricolo**, Francesco Salvatore, Giulia Frisso.
Interpretation of non-coding variants in inherited cardiomyopathies associated to sudden death
58th National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB).
Urbino 14-16 september 2015.
- 4) Iovine B., Nocella F., Garofalo M., **Pricolo M.R.**, Orefice M., Bevilacqua M.A
L-Carnosine inhibits KRAS-mediated HCT116 proliferation, by affecting ROS production and Hypoxia inducible factor (HIF-1 α) expression
56th National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB).
Chieti 26-29 september 2012. Abstract 48
- 5) Barbara Iovine, **Maria Rosaria Pricolo**, Maria Luigia Iannella,
Maria Assunta Bevilacqua, Rossella Di Giaimo.
DDB1 (DNA damage-binding protein 1) as a new partner of Cystatin B (CSTB).
36th FEBS Congress. Torino, Italy, June 25-30, 2011. Abstract P14-51 pp 272
- 6) Barbara Iovine, Maria Luigia Iannella, **Maria Rosaria Pricolo**, Francesca Nocella,
Vincenzo Schettini, Maria Assunta Bevilacqua.
Effetto della Carnosina su cellule di carcinoma colon-rettale (HCT)
Giornate scientifiche del Polo delle Scienze e delle Tecnologie per la Vita
Facoltà di Medicina e Chirurgia. Università Federico II. Napoli. 24-26 novembre 2010. Abstract 059
- 7) Barbara Iovine, Maria Luigia Iannella, Vincenzo Schettini, **Maria Rosaria Pricolo**, Francesca Nocella, Maria
Assunta Bevilacqua.
Carnosine inhibits melanoma cells proliferation.
55th National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB).
Milano 14-17 settembre 2010. Abstract 38

Certificate of attendance	<p>SUMMER SCHOOL TRANSKILLS-Competenze strategiche per i giovani ricercatori Universita' Cattolica del Sacro Cuore Como, 4-7/07/2017</p> <p>Alpha Technology Training Fisciano, 13/05/2016</p> <p>Bio-Rad seminar: "La nuova frontiera della PCR quantitativa QX200TM droplet digital PCR" Naples, 15/10/2014</p> <p>Bio-Rad seminar: "Gene-Expression analysis; from the beginnings to the state of the art. The relevance of reference genes, RNA quality and the importance of MIQE guidelines" e "HRM the Bio-Rad way. New opportunity for genomic screening and mutation analysis with real-time PCR Instruments". Naples, 25/05/2010</p> <p>NETCAMPUS 2013 event: Technical conference on the Microsoft world news organized by DevLeap group, in collaboration with Microsoft Student Partners and the most active community. Rom, 13-04-2013</p>
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Date 14.12.2017

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