

Curriculum vitae

FALBO Lucia,

Birth: 7 December 1985

Place of Birth: Catanzaro (CZ) – Italy

Personal address: Via Misericordia, snc – 88054, Sersale (Catanzaro) – Italy

Citizenship: Italian

Affiliation: IFOM –FIRC Institute of Molecular Oncology Foundation, Milan, Italy

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Spoken Languages: Italian, English, French

Education

February 2011 – February 2015

PhD in Medical Biotechnology

“Magna Graecia” University of Catanzaro – Faculty of Medicine and Surgery – Catanzaro - Italy

Supervisor: Prof. Francesco Saverio Costanzo

December 2008 – October 2010

Degree in Medical Biotechnology (two years post-graduate)

“Magna Graecia” University of Catanzaro - Faculty of Medicine and Surgery – Catanzaro – Italy.

”Phosphorylation of MLH1, induced by doxorubicin, modifies cell cycle progression”.

Supervisor: Dr. Concetta Maria Faniello

Final result: 110/110 with honours

April 2008 – December 2008

Master’s Degree in Molecular Medicine and Biotechnology at “Magna Graecia” University of Catanzaro – Faculty of Medicine and Surgery – Catanzaro – Italy.

“Cellular mechanisms of tumor suppression by retinoblastoma gene”.

Supervisor: Dr. Concetta Maria Faniello

Final result: 70/70 with honours

September 2004 – October 2007

Degree in Biotechnology (three years undergraduate) at “Magna Graecia” University of Catanzaro – Faculty of Medicine and Surgery – Catanzaro – Italy.

“Analysis of serum proteome in FAP patients”.

Supervisor: Prof. Francesco Saverio Costanzo

Final result: 108/110

Research Experiences

February 2015 – Current

Postdoctoral fellowship

FIRC Institute of Molecular Oncology Foundation, Milan, Italy

DNA Metabolism Laboratory

Supervisor: Dr. Vincenzo Costanzo

March 2013 – February 2015

Visiting PhD student

FIRC Institute of Molecular Oncology Foundation, Milan, Italy

DNA Metabolism Laboratory

Supervisor: Dr. Vincenzo Costanzo

Aim of the project was the characterization of the role of SSRP1 during nuclear reprogramming.

January 2012 – February 2013

Visiting PhD student

London Research Institute - Cancer research UK

Clare Hall Laboratories, Department of Genome Stability

Supervisor: Dr. Vincenzo Costanzo

Aim of the project was the identification of new factors involved in DNA replication.

October 2010 – January 2011

Research Fellow

“Magna Graecia” University of Catanzaro - Department of Experimental and Clinical Medicine

Molecular Oncology Laboratory 1

Supervisor: Prof. Francesco Saverio Costanzo

After graduation, I focused my research on the role of ferritin heavy chain in tumor progression.

December 2008 – October 2010

Undergraduate student

“Magna Graecia” University of Catanzaro - Department of Experimental and Clinical Medicine

Molecular Oncology Laboratory 1

Supervisor: Prof. Francesco Saverio Costanzo

The project focused on the role of BRCA1 and hMLH1 in response to DNA damage after adryamicin treatment.

September 2006 – October 2007

Undergraduate student

“Magna Graecia” University of Catanzaro - Department of Experimental and Clinical Medicine

Molecular Oncology Laboratory 1

Supervisor: Prof. Francesco Saverio Costanzo

The project focused on the characterization of hMLH1 promoter.

Technical skills and competence:

During the research training, experience and competence has been gained in the following techniques:

Culture of several cell lines, primary cells and relative assays:

Primary and cancer cells cultures
Cell proliferation Assay
Cell Adhesion Assay
Cell Invasion Assay
Plasmid Transfection and Lentiviral/Retroviral infection
Lentiviral and Retroviral Particles Preparation
Reprogramming

Biochemistry techniques:

Total protein and subcellular fractions extraction
Protein Electrophoresis, Silver, Coomassie and Ponceau staining
Western blot, Immunoprecipitation and Co-Immunoprecipitation, Chromatin IP
In vitro Kinase Assay
Luciferase assay
Production and purification of recombinant protein in bacteria and in eukaryotic cells
Knocking down of protein expression in eukaryotic cells by shRNA and siRNA
Pull down Assay

Molecular Biology:

DNA and RNA extraction
Nucleic Acids electrophoresis
DNA cloning
PCR, RT-PCR
Southern and Northern Blot
Electrophoretic Mobility Shift Assay
Use of vectors of expression in eukaryotic and bacterial systems (plasmid vectors, retroviral and lentiviral vectors)
Use of siRNA-expressing vectors for gene knock-down

Xenopus System:

Xenopus laevis cell-free egg extract system generation and manipulation
Replication Assay
Chromatin Binding

FACS acquisition and analysis

Confocal Microscopy acquisition and analysis

Bioinformatics Tools: Bioedit, Blast, Fasta33, ClustalX, SnapGene, Primer3 Input, Gene Jokey, Image J

Publications:

F. Romeo, **L. Falbo**, M. Di Sanzo, R. Misaggi, M.C. Faniello, T. Barni, G. Cuda, G. Viglietto, C. Santoro, B. Quaresima, F. Costanzo. "Negative transcriptional regulation of the human periostin gene by YingYang-1 transcription factor." – Gene.2011 Nov 10;487(2):129-34.

F. Romeo, **L. Falbo**, M. Di Sanzo, R. Misaggi, M.C. Faniello, G. Viglietto, G. Cuda, F. Costanzo, B. Quaresima. "BRCA1 is required for hMLH1 stabilization following doxorubicin-induced DNA damage." - Int J of Biochem & Cell Biol. – Int J Biochem Cell Biol.2011 Dec;43(12):1754-63.

M. Di Sanzo, M. Gaspari, R. Misaggi, F. Romeo, **L. Falbo**, C. De Marco, V. Agosti, B. Quaresima, T. Barni, G. Viglietto, M.R. Larsen, G. Cuda, F. Costanzo, M.C Faniello. "H ferritin gene silencing in a human metastatic melanoma cell line: a proteomic analysis". - J Proteome Res. 2011 Dec 2;10(12):5444-53.

Conferences and Workshops:

Pesaro, 10-12 October 2013

Joint National Ph.D. Meeting 2013

Identification of novel factors regulating vertebrate DNA replication.

L. Falbo, F. S. Costanzo, V. Costanzo.

Turin, 25-30 June 2011

36th FEBS Congress

Transcriptional regulation of POSTN gene expression by YY1 and BRCA1.

L. Falbo, F. Romeo, M. Di Sanzo, R. Misaggi, G. Cuda, M. C. Faniello, B. Quaresima and F. Costanzo.

The proteome of the FHC silenced cell: in vitro and in vivo analysis.

R. Misaggi, M. Di Sanzo, M. Gaspari, F. Romeo, **L. Falbo**, G. Cuda, B. Quaresima, M. C. Faniello, F. Costanzo.

Catanzaro, 21 June 2011

"HCV domani: proiezioni in clinica, diagnostica, terapia."

Praga, 4-9 July 2009

34rd FEBS Congress

Transcriptional regulation of H-Ferritin gene after TSH stimulation: NF-Y/p300 complex.

M. Di Sanzo, F. Romeo, G. Epifanio, E Arcuri, B.M. D'Alessandro, **L. Falbo**, R. Sottile, B. Quaresima, MC. Faniello, F. Costanzo.

Catanzaro, 10 June 2009

"Biotecnologie e Medicina", sponsored by Merck Serono

Scientific Memberships: SIBBM

References:**Francesco Saverio Costanzo, MD**

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