



PERSONAL INFORMATION Pina Fusco

-  Pediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy
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POSITION Post-doctoral fellow
Neuroblastoma Laboratory - Prof. Gian Paolo Tonini**WORK EXPERIENCE**2015 **Post-doctoral fellow**

Prof. A. Ruiz i Altaba group - University of Geneva Medical School, 1 rue Michel Servet CH-1211, Geneva 4 Switzerland

- Signaling, reprogramming and mechanisms of metastases

2013 - 2014 **Post-doctoral fellow**

Molecular Medicine Laboratory, Department of Molecular and Developmental Medicine, University of Siena, via A. Moro 2, 53100 Siena, Italia

Professor Vincenzo Sorrentino

- Study of the processes responsible for muscle aging

2009-2012 **PhD Student**

Molecular Medicine Laboratory, Department of Molecular and Developmental Medicine, University of Siena, via A. Moro 2, 53100 Siena, Italia

Supervisor: Professor Vincenzo Sorrentino

- Molecular mechanisms in the organization of specialised domains of sarcoplasmic reticulum (SR) in skeletal muscle cells

2007-2009 **Graduate Student**

Molecular Genetics & Genomics Laboratory, Institute of Genetics and Biophysics, "Adriano Buzzati Traverso", CNR, Naples

Supervisor: Fernando Gianfrancesco, PhD

- Identification of causative genes responsible for multifactorial human diseases, as Paget's disease of bone

2006 **Undergraduate Student**

Human Molecular Genetics Laboratory, Department of Functional and Structural Biology, University of Naples "Federico II"

Supervisor: Professor Luigi Lania

- P-TEFb factor and the signalling pathways that regulate.

EDUCATION AND TRAINING

- November 2012 **PhD in Molecular Medicine**
 University of Siena, Italy.
 ▪ Thesis title: ROLE OF sAnk1.5 AND JUNCTOPHILINS IN ORGANIZATION OF DISTINCT DOMAINS OF SARCOPLASMIC RETICULUM.
- June 2009 **Master's degree in Molecular Biology**
 University of Naples "Federico II", Italy.
 ▪ Thesis title: MOLECULAR ANALYSIS OF SQSTM1 GENE AND GENOTYPE-PHENOTYPE CORRELATION IN PATIENTS AFFECTED BY PAGET'S DISEASE OF BONE
- March 2006 **Bachelor's degree in Biology**
 University of Naples "Federico II", Italy.
 ▪ Thesis title: ANALYSIS OF PROTEIN-PROTEIN INTERACTIONS USING THE GST-PULL DOWN ASSAY.

PERSONAL SKILLS

Mother tongue	Italian				
Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[COMMON EUROPEAN FRAMEWORK OF REFERENCE FOR LANGUAGES](#)

Technical skills Molecular biology: genomic and plasmid DNA extraction, RNA extraction; PCR and Real Time PCR; gel electrophoresis; plasmid vectors construction; gene cloning and expression; sequencing; quantitative analysis of microRNA (with Real Time PCR and Northern Blot).

Biochemical techniques: SDS-PAGE electrophoresis, Western Blot; immunoprecipitation and GST-pulldown techniques.

Cell biology: cell culture, DNA and RNA transfection; immunofluorescence staining; RNA inhibition techniques (with siRNA, shRNA and miRNA).

Histology: cryofixation and cryosectioning of tissues; immunofluorescence staining and basic staining techniques of tissue sections.

Animal manipulation: handling and genotyping of transgenic mice.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

[Digital competences - Self-assessment grid](#)

Use of the informatic programs: Word, Excel, Power Point, Internet Explorer, and programs for nucleotidic and aminoacidic sequence analysis (BLAST e CLUSTALW). Use of the software for image analysis: Adobe Photoshop, ImageJ and LSM image browser.

Driving licence B

ADDITIONAL INFORMATION

Publications

Giacomello E, Quarta M, Paolini C, Squecco R, Fusco P, Toniolo L, Blaauw B, Formoso L, Rossi D, Birkenmeier C, Peters L, Francini F, Protasi F, Reggiani C, Sorrentino V. DELETION OF SMALL ANKYRIN 1 (SANK1) ISOFORMS RESULTS IN STRUCTURAL AND FUNCTIONAL ALTERATIONS IN SKELETAL MUSCLE FIBRES American Journal of Physiology – Cell Physiology, 2014 Oct 29

Mossetti G., Gennari L., Rendina D., De Filippo G., Merlotti D., De Paola V., Fusco P., Esposito T., Gianfrancesco F., Martini G., Nuti R., Strazzullo P. VITAMIN D RECEPTOR GENE POLYMORPHISM PREDICT ACQUIRED RESISTANCE TO CLODRONATE TREATMENT IN PATIENTS WITH PAGET'S DISEASE OF BONE Calcif Tissue International, 2008 Nov 20.

Gennari L., Gianfrancesco F., Di Stefano M., Rendina D., Merlotti D., Esposito T., Gallone S., Fusco P., Rainero I., Fenoglio P., Mancini M., Martini G., Bergui G., De Filippo G., Isaia G.C., Strazzullo P., Nuti R., Mossetti G.
SQSTM1 GENE ANALYSIS AND GENE-ENVIRONMENT INTERACTION IN PAGET'S DISEASE OF BONE
J Bone Miner Res., 2010 Jan 15.

Conferences

June 5-7, 2009

Poster presentation at 1st Joint Retreat IBP- IGB- TIGEM, Rocaraso (AQ), Italy
"MOLECULAR ANALYSIS OF SQSTM1/P62 GENE AND GENOTYPE-PHENOTYPE CORRELATION IN PATIENTS AFFECTED BY PAGET'S DISEASE OF BONE."
Fusco P., Mancini M., Mingione A., Ciccodicola A., Esposito T., Gianfrancesco F.,

Novembre 8-11, 2009

Oral Presentation at XII Congresso Nazionale SIGU, Turin, Italy
"SQSTM1/P62 GENE MUTATIONAL ANALYSIS AND GENOTYPE-PHENOTYPE CORRELATIONS IN A LARGE COHORT OF ITALIAN PATIENTS OF PAGET'S DISEASE OF BONE"
Fusco P, Gennari L, Rendina D, Merlotti D, Mingione A, De Filippo G, Esposito T, Mossetti G, Gianfrancesco F

April 16-17, 2010

"Membrane Trafficking and Organelle Biogenesis" ABCD, Siena, Italy

October 14-16, 2010

7th Annual Meeting of the "Istituto Interuniversitario di Miologia" IIM, Siena, Italy

October 27-29, 2011

8th Annual Meeting of the "Istituto Interuniversitario di Miologia" IIM, Sestri Levante, Italy

June 3-8, 2012

Poster presentation at Gordon Research Conference / Muscle: Excitation/Contraction Coupling, Les Diablerets, Switzerland
"ALTERATION OF THE SARCOPLASMIC RETICULUM AND IMPAIRMENT OF THE CONTRACTILE RESPONSE IN SKELETAL MUSCLE FROM MICE LACKING MUSCLE-SPECIFIC SMALL ANKYRIN 1 ISOFORMS"
▪ Giacomello E, Fusco P, Quarta M, Paolini C, Squecco R, Francini F, Protasi F, Birkenmeier C, Reggiani C, Sorrentino V.