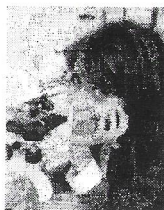


PERSONAL INFORMATIONS

Marika Milan



📍 Via Scipione Borghese n°34, Nettuno (RM),

☎ CAP 00048 +39 06 9854670

✉ Marika.88milan@gmail.com

Gender Female | Date of birth 16/09/1988 | Nationality Italian

WORK EXPERIENCE

October 2015 – present

PhD student

Cell Biology and Neurobiology Institute, Italian National Research Council (IBCN-CNR),
Via del Fosso di Fiorano 64 – 00143 Rome, Italy

Characterization of the effect of Givinostat, an HDACi of recent clinical interest, on a mouse model of myocardial infarction (AMI) and dystrophic cardiomyopathy (Mdx mice), and, in particular, the interplay with the endothelial-mesenchymal transition (EndoMT) mechanism. Supervisor Dr. R. Rizzi.

Type of business **Medical**

February 2015 – July 2015

Scholarship holder

Cell Biology and Neurobiology Institute, Italian National Research Council (IBCN-CNR),
Via del Fosso di Fiorano 64 – 00143 Rome, Italy

Research in the field of cardiac regeneration. Supervisor Dr. R. Rizzi.

Type of business **Medical**

September 2014 – January 2015 Contract of research collaboration

University of Rome "Sapienza", Piazzale Aldo Moro 5 – 00185 Rome, Italy

Mesenchymal stem cell culture and *in vivo* experiments, under the supervision of Dr E. De Falco, acquiring a very good knowledge in the field of cardiac stem cell cultures and cell transplantation.

Type of business **Medical**

April 2014 – July 2014

Contract of research collaboration

IRCCS S.Lucia Foundation, Via del Fosso di Fiorano 64 – 00143 Rome, Italy

Research in the field of muscle regeneration, under the supervision of Dr. M. Caruso

Type of business **Medical**

January 2012 – December
2013

Undergraduate student
University of Rome "Sapienza", Piazzale Aldo Moro 5 – 00185 Rome, Italy

Study of Egr-1 role in mouse SVZ-derived neural stem cell proliferation and differentiation, under the supervision of Dr S. Biagioni, to understand the effects of Egr-1 overexpression on the properties of NSC analyzing known and putative Egr-1 direct targets through Chromatin Immunoprecipitation assay followed by qPCR (ChIP-PCR).

Type of business **Medical**

October 2009 – September
2011

Undergraduate student
University of Rome "Sapienza", Piazzale Aldo Moro 5 – 00185 Rome, Italy

Role of proline in flowering of *Arabidopsis*, under the supervision of Dr. M. Trovato, through the isolation and the characterization of homozygous lines of transgenic *Arabidopsis Thaliana* 35SINDP5CS1.

Type of business **Medical**

September 2008 –
September 2009

Laboratory Assistant
University of Rome "Sapienza", Piazzale Aldo Moro 5 – 00185 Rome, Italy

Laboratories preparation for training

Type of business **Medical**

May 2005

Research scholar
"Life Learning Center",
Via della Beverara 123, 40131 Bologna

Screening of GMO products, bacterial transformation and bioinformatics

Type of business **Medical**

EDUCATION AND TRAINING

December 2013

Master Degree summa cum laude in Genetic and Molecular Biology
Department of Biology and Biotechnology C.Darwin, University of Rome "Sapienza",
Piazzale Aldo Moro 5 – 00185 Rome, Italy

Experimental Thesis: "Egr-1 role in mouse SVZ-derived aNSCs proliferation and differentiation and its interplay with the NSCs proliferative factor EGF", under the supervision of Dr S. Biagioni.

September 2011

Bachelor's Degree summa cum laude in Agro-Biotechnology
Department of Biology and Biotechnology C.Darwin, University of Rome "Sapienza",
Piazzale Aldo Moro 5 – 00185 Rome, Italy

Experimental Thesis: "Isolation and characterization of homozygous lines of transgenic *Arabidopsis Thaliana* 35SINDP5CS1", under the supervision of Dr. M. Trovato

TECHNICAL SKILLS AND COMPETENCES

Mother tongue Italian

	COMPREHENSION		SPEAKING		WRITING
	Learning	Lecture	Interactions	Communication	
English	B2	B2	B2	B2	B2

Levels: A 1/2 basic - B1/2 intermediate - C1/2 advanced

Technical skills and competences

CELL BIOLOGY: stem cell cultures; isolation of fibroblasts and stem cells; generation of human induced pluripotent stem cells (iPS); muscle and neuronal differentiation of stem cells; immunofluorescence and immunohistochemistry; proliferation and apoptosis assays; confocal microscopy. 3D bioprinter technology for tridimensional scaffold elaboration.

MOLECULAR BIOLOGY: extraction and purification of DNA, RNA, proteins; real time PCR, western blot, chromatin immunoprecipitation (ChIP).

ANIMAL MODELS: skill in the manipulation of mice and genotyping; experience with transgenic mouse models; microsurgery (acute myocardial infarction, abdominal aortic perfusion; in vivo experiments (cardiovascular perfusion, animal dissection, brain fixation, cell transplantation).

Computer skills and competences

Very good knowledge of Windows operating system, Office (Word, Excel, PowerPoint, Movie Maker), Prism Graphpad, Adobe Photoshop CS, Image J, software for molecular analysis (Primer 3, Ensembl) and Software for image analysis (IAS, Delta Systems Italy; Image Analysis software)

Organisational skills and competences

Excellent organizational of lab and administrative skills. Student training.

INFORMATIONS
TRAINING COURSES

"The use of statistics in Biomedical Research", AISAL and IBCN-CNR, June 2015.
 "Introduction training for animal experimentation", Mario Negri Institute, Milan, November 2015.
 "Training Course for Workers - 2015/28", CNR-IBCN, December 2015
 "ImageJ training course" , "Tor Vergata" University, Rome, May 2016

Meetings and seminars

"XIV Conferenza internazionale sulla distrofia muscolare di Duchenne e Becker" poster presentation ; Rome February, 2018

"LSCM 2016- 5th Lugano Stem Cell Meeting", Lugano, June 2016, poster presentation

"The molecular and cellular basis of regeneration and tissue repair", Paestum, September 2016, poster presentation

PUBLICATIONS

Maiullari F, Costantini M, **Milan M**, Pace V, Chirivi M, Maiullari S, Rainer A, Baci D, Marei HE, Seliktar D, Gragioli C, Bearzi C, Rizzi R. A multi-cellular 3D bioprinting approach for vascularized heart tissue engineering based on HUVECs and iPSC-derived cardiomyocytes." *Submitted to Biofabrication*

Milan M, Pace V, Maiullari F, Chirivi M, Baci D, Maiullari S, Madaro L, Maccari S, Stati T, Marano G, Frati G, Puri PL, De Falco E, Bearzi C, Rizzi R. Givinostat reduces adverse cardiac remodeling through regulating fibroblasts activation. *Cell Death Dis.* 2018 Jan 25;9(2):108. doi: 10.1038/s41419-017-0174-5.

Angelini F, Pagano F, Bordin A, **Milan M**, Chimenti I, Peruzzi M, Valenti V, Marullo A, Schirone L, Palmerio S, Sciarretta S, Murdoch CE, Frati G, De Falco E. The Impact of Environmental Factors in Influencing Epigenetics Related to Oxidative States in the Cardiovascular System. *Oxid Med Cell Longev.* 2017;2017:2712751. doi: 10.1155/2017/2712751. Epub 2017 May 14. Review.

Ronca A, Maiullari F, **Milan M**, Pace V, Gloria A, Rizzi R, De Santis R, Ambrosi L. Surface functionalization of acrylic based photocrosslinkable resin for 3D printing applications. *Bioactive Materials.* 2017.in press

Nardella M, Guglielmi L, Musa C, Iannetti I, Maresca G, Amendola D, Porru M, Carico E, Sessa G, Camerlingo R, Dominici C, Megiorni F, **Milan M**, Bearzi C, Rizzi R, Pirozzi G, Leonetti C, Bucci B, Mercanti D, Felsani A, D'Agnano I. Down-regulation of the Lamin A/C in neuroblastoma triggers the expansion of tumor initiating cells. *Oncotarget.* 2015 Oct 20;6(32):32821-40. doi

Luogo e data

ROMA il 13.03.2018

FIRMA

Monika Hilou