

Curriculum vitae

PERSONAL INFORMATION

Fabiola Marino

Sex Female | **Date of birth** 18 Jun 1987 | **Nationality** Italian

WORK EXPERIENCE

1 Jun 2017–31 May 2018 **Research fellowship - post-doc**
Department of Experimental and Clinical Medicine of Magna Graecia University, Catanzaro (Italy)
"The role of microRNAs in the regenerative potential of cardiac stem cells in Diabetes Mellito"

EDUCATION AND TRAINING

1 Jan 2014–16 May 2017 **Ph.D. in Life Sciences**
Magna Graecia University, Catanzaro (Italy)
Title of thesis: c-kit^{POS} Adult Multipotent Cardiac Stem Cells: A Model System to Study Cardiomyogenesis.
Tutor: Dr. E.Palma

1 Mar 2015–31 August 2015 **Internship**
Centre for Stem Cells and Regenerative Medicine, Faculty of Life Sciences & Medicine of King's College London, UK - laboratory of Cardiac Stem Cell Physiology, London (United Kingdom)
Main Activities: immunohistochemistry and characterization of murine cardiac stem cells through confocal microscopy
Tutor: Dr. Georgina M. Ellison

1 Feb 2013-31 Dec 2013 **Internship PON "PROMETEO" Training Course in Stem Cell Biology and Regenerative Medicine**
Magna Graecia University, Catanzaro
Supervisor: Dr. G.Cuda
Tutor: Dr. D.Torella

1 Oct 2010–19 Dec 2012 **Master's degree in Biology – LM6 – Vote 110/110**
Unical University, Cosenza (Italy)
Title of thesis: Reconstitution in liposomes of the over-expressed OCTN2 human

transport system in E. coli. - Experimental thesis in applied biochemistry – Tutor: C.Indiveri

1 Sep 2002–20 Jul 2006 **Classy maturity - 100/100**

PERSONAL SKILLS

Mother tongue(s) Italian

OTHER LANGUAGES

English

Reading: Good

Writing: Good

Speaking: Good

Communication skills Excellent interpersonal skills and flexibility to work in different areas of research (theoretical and experimental).

Organisational / managerial skills Ability to design and carry out experimental strategies autonomously and within the research group

Job-related skills Molecular Biology: protein isolation, DNA and RNA extraction, genotyping, Western blotting, qPCR, flow cytometry, immunofluorescence, immunohistochemistry, confocal microscopy, miRNA/ piRNA/plasmid transfection; murine neonatal cardiomyocytes isolation, stem cells isolation, murine and human cell culture

Publications

1. Torella D, Ellison GM, Torella M, Vicinanza C, Aquila I, Iaconetti C, Scalise M, **Marino F**, Henning BJ, Lewis FC, Gareri C, Lascar N, Cuda G, Salvatore T, Nappi G, Indolfi C, Torella R, Cozzolino D, Sasso FC. Carbonic anhydrase activation is associated with worsened pathological remodeling in human ischemic diabetic cardiomyopathy. J Am Heart Assoc. 2014;3(2):e000434. doi: 10.1161/JAHA.113.000434.
2. Aquila I, Vicinanza C, Scalise M, **Marino F**, Correale C, Torella M, Nappi G, Indolfi C, Torella D. Understanding tissue repair through the activation of endogenous resident stem cells. Stem Cells in Animal Species: From Pre-clinic to Biodiversity. Part of the series Stem Cell Biology and Regenerative Medicine pp 31-48. 2014; DOI 10.1007/978-3-319-03572-7_2

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3. Vicinanza C, Aquila I, Scalise M, Cristiano F, **Marino F**, Cianflone E, Mancuso T, Sacco W, Lewis F.C, Couch L, Shone V, Gritti G, Torella A, Smith A.J, Terracciano C.M.N, Britti D, Veltri P, Indolfi C, Nadal-Ginard B, Ellison-Hughes G.M, Torella D. Adult Cardiac Stem Cells are Multipotent and Robustly Myogenic: c-kit Expression is Necessary but not Sufficient for their Identification. *Cell Death Differ.* 2017 Aug 11. doi: 10.1038/cdd.2017.130.
4. Aquila I, **Marino F**, Cianflone E, Marotta P, Torella M, Mollace V, Indolfi C, Torella D. The use and abuse of Cre/lox recombination in vivo to identify true adult multipotent cardiac stem cells. *Pharmacol Res.* 2017 Jun 24. pii: S1043-6618(17)30611-4. doi: 10.1016/j.phrs.2017.06.012.
5. Iaccino E, Mimmi S, Dattilo V, **Marino F**, Candeloro P, Di Loria A, Marimpietri D, Pisano A, Albano F, Vecchio E, Ceglia S, Golino G, Lupia A, Fiume G, Quinto I, Scala G. Monitoring multiple myeloma by idiotypic-specific peptide binders of tumor-derived exosomes. *Mol Cancer.* 2017 Oct 13;16(1):159. doi: 10.1186/s12943-017-0730-8.
6. Marotta P, Cianflone E, Aquila I, Vicinanza C, Scalise M, **Marino F**, Mancuso T, Torella M, Indolfi C, Torella D. Combining cell and gene therapy to advance cardiac regeneration. *Expert Opin Biol Ther.* 2018 Apr;18(4):409-423. doi: 10.1080/14712598.2018.1430762. Epub 2018 Jan 24.
7. Vicinanza C, Aquila I, Cianflone E, Scalise M, **Marino F**, Mancuso T, Fumagalli F, Giovannone ED, Cristiano F, Iaccino E, Marotta P, Torella A, Latini R, Agosti V, Veltri P, Urbanek K, Isidori AM, Saur D, Indolfi C, Nadal-Ginard B, Torella D. Kit_{cre} knock-in mice fail to fate-map cardiac stem cells. *Nature.* 2018 Mar 21;555(7697):E1-E5. doi: 10.1038/nature25771.
8. Carresi C, Musolino V, Gliozzi M, Maiuolo J, Mollace R, Nucera S, Maretta A, Sergi D, Muscoli S, Gratteri S, Palma E, Bosco F, Giancotta C, Muscoli C, **Marino F**, Aquila I, Torella D, Romeo F, Mollace V. Anti-oxidant effect of Bergamot polyphenolic fraction counteracts Doxorubicin-induced cardiomyopathy: role of autophagy and c-kitpos CD45neg CD31neg cardiac stem cell activation. *J Mol Cell Cardiol.* Accepted April 2018. In press.

Poster Communications

1. Vicinanza C, Ellison GM, Scalise M, Aquila I, Correale C, **Marino F**, Torella M, Nadal Ginard B, Torella D. Cardiac Atrial Myxomas Originate From c-kit+/flk-1+/Isl-1+/Nkx2.5+ Cardiac Stem and Progenitor Cells. 55^o Annual Meeting of the Italian cancer Society, Catanzaro, 23 - 26 settembre 2013.
2. Carresi C, Aquila I, **Marino F**, Musolino V, Correale C, M Gliozzi, Ellison GM, NadalGinard B, Torella D, Mollace V. Protection against doxorubicine-induced cardiomyopathy by bergamot polyphenols through myocyte survival and cardiac stem cell activation – FCVB 2014 Frontiers in Cardiovascular Biology, 4-6 July 2014 – Barcelona
3. Scalise M, Aquila I, Vicinanza C, **Marino F**, Cristiano F, Cianflone E, Veltri P, Nadal Ginard B, Ellison GM, Torella D. c-kit+ CSC-derived cardiomyocytes exhibit the typical transcriptional gene blueprint of adult

cardiomyocytes - ESC Congress 2015 - Saturday 29 August – 2 September 2015, London - United Kingdom

4. **Marino F**, Aquila I, Mancuso T, Cianflone E, Carresi C, Mollace V, Indolfi C, Ellison GM, Nadal Ginard B, Torella D. The adult myocardium has a robust endogenous cardiomyocyte turnover potential - ESC Congress 2015 - Saturday 29 August - – 2 September 2015 (5 Days), London - United Kingdom Wednesday 02 September 2015 London - United Kingdom

5. Smith AJ, Aquila I, **Marino F**, Scalise M, Henning BJ, Nadal Ginard B, Ellison GM, Torella D. In situ activation of endogenous cardiac stem cells alters their secretome, miRnome, potentiating their regenerative capacity on the injured heart - ESC Congress 2015 - Saturday 29 August - Wednesday 02 September 2015 London - United Kingdom 5

6. Cianflone E, Vicinanza C, Aquila I, Scalise M, **Marino F**, Mancuso T, Giovannone ED, Ellison GM, Nadal Ginard B, Torella D. c-kit/CreERT2 knock-in allele minimally tags c-kit positive resident endogenous cardiac stem cells and its cardiomyocyte progeny in the adult life- ESC Congress 2015 - Saturday 29 August - Wednesday 02 September 2015 London - United Kingdom

7. **Marino F**, Aquila I, Mancuso T, Cianflone E, Carresi C, Mollace V, Indolfi C, Ellison GM, Nadal-Ginard B, Torella D. The adult myocardium has a robust endogenous cardiomyocyte turnover potential – SIRC Società Italiana di Ricerche Cardiovascolari , 26- 27 Novembre 2015 – Imola

8. Cianflone E, Vicinanza C, Aquila I, Scalise M, **Marino F**, Mancuso T, Giovannone ED, Ellison GM, Nadal Ginard B, Torella D. c-kit/CreERT2 knock-in allele minimally tags c-kit positive resident endogenous cardiac stem cells and its cardiomyocyte progeny in the adult life – SIRC Società Italiana di Ricerche Cardiovascolari , 26-27 Novembre 2015 – Imola

9. Scalise M, Aquila I, Vicinanza C, **Marino F**, Cristiano F, Cianflone E, Veltri P, Nadal Ginard B, Ellison GM, Torella D. c-kit+ CSC-derived cardiomyocytes exhibit the typical transcriptional gene blueprint of adult cardiomyocytes – SIRC Società Italiana di Ricerche Cardiovascolari , 26-27 Novembre 2015 – Imola

10. Carresi C, Musolino V, Gliozzi M, Giancotta C, Lauro F, Giancotti L, Ilari S, Morabito C, Scarcella A, Scarano F, Maiuolo J, Oppedisano F, Maretta A, **Marino F**, Palma E, Torella D, Muscoli C, Mollace V. Bergamot Polyphenols Protect Against Doxorubicin-Induced Cardiomyopathy Reducing ROS Production And Promoting Myocyte Survival – SIF Società Italiana di Farmacologia, 27-30 ottobre 2015 – Napoli

11. Cianflone E., **Marino F**, Scalise M, Aquila I, Vicinanza C, Mancuso T, Filardo A, GarciaRamirez I, Indolfi C, Sanchez-Garcia I, Torella D. The heart has a constant and significant cardiomyocyte replacement rate by endogenous cardiac stem cells in the adult life – ESC Congress 2016 - Saturday 27 - Wednesday 31 August 2016 (5 Days), Rome - Italy

12. Aquila I, Vicinanza C, Scalise M, **Marino F**, Cianflone E, Mancuso T, Filardo A, Indolfi C, Nadal-Ginard B, Torella D. ckit/creERT2 knock-in allele does not efficiently fate-track c-kit positive resident cardiac stem cells and impairs their regenerative potential – ESC Congress 2016 - Saturday 27 - Wednesday 31 August 2016 (5 Days), Rome – Italy

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Oral Communication

1. The adult myocardium has a robust endogenous cardiomyocyte turnover potential - Myocardial Function & Cellular Biology of the Heart Meeting 2015 - Thursday 30 April - Sunday 03 May 2015 Varenna – Italy
2. The adult myocardium has a robust endogenous cardiomyocyte turnover potential - ESC Congress 2015 - Saturday 29 August - Wednesday 02 September 2015 London - United Kingdom
3. The adult myocardium has a robust endogenous cardiomyocyte turnover potential – SIRC Società Italiana di Ricerche Cardiovascolari , 26-27 Novembre 2015 – Imola –
4. Cardiomyocyte Replacement Rate After Selective Cardiomyocyte Death In The Adult Heart - 76° Congresso Nazionale Rome Cavalieri, 11-14 Dicembre 2015 – ROMA
5. Selective loss of adult cardiomyocytes is replenished by new endogenous cardiomyocyte formation in the presence of a patent coronary circulation – ESC Congress 2016 - Saturday 27 - Wednesday 31 August 2016 (5 Days), Rome - Italy

Fabrizio Marini

I authorise the use of my personal data in compliance with Legislative Decree 196/03.