

Curriculum Vitae

Clarice Gareri, PhD

Postdoctoral Experiences:

- **November 2019 – today:** Guest Editor at JoVE
- **July 2017 – June 2020:** Postdoctoral researcher at “Magna Graecia” University; Catanzaro, (IT)
Main subjects: Haematology, Cardiology, Molecular Biology, Genetics, Physics and Animal Handling (mouse, rat).
- **October 2014 – July 2017:** Visiting Scholar at Duke University; Durham (NC).
Main subjects: New drugs design, Pharmacology, Biochemistry, Cell Biology, Genetics.

Languages: Italian (Native language)
English (Fluent)

Grants and Awards.

“*Brain2South*” Grant; January 2018 - December 2020.

“*Travel Grant*” from the European Heart Rhythm Association (EHRA) to participate to the meeting in Barcelona in March 2018.

“*Young investigator award*”, Italian Society of Cardiology; December 2014.

Education

- On-going: School of **Specialization post-degree** in Genetics. “Magna Graecia” University of Catanzaro, Italy.
- February 2016: **PhD degree** in “Medical Biotechnology”. Magna Graecia University; Catanzaro, Italy.
Thesis Title: “The role of ncRNAs in vascular remodeling after injury”
- September 2012: **National Habilitation** to the Profession of Biologist. “Sannio” University; Benevento, Italy.
- February 2012: **Master’s degree** “*Summa cum Laude*” in biology (focus in molecular biology). Federico II University; Naples, Italy.
- October 2009: **Bachelor’s degree** in biology, (focus in molecular biology). Federico II University; Naples, Italy.

Mentoring

Mentor for graduate and undergraduate students as well as research technicians, for the past 6 years.

Computer Skills

ECDL Certification.

Excellent knowledge of both Windows and iOS systems, Microsoft Office (Excel, Word and Power Point), Graphpad and Photoshop.

Other Skills

- Willingness and ability to take on additional responsibilities and undertake challenging tasks and/or projects.
- Excellent communication skills.
- Ability to work with several people in a structured and organized fashion.
- Willingness to travel.

Previous Experiences:

- **June 2012 – February 2016:** PhD student at “Magna Grecia” University; Catanzaro, (IT)
Project Title: “The role of ncRNAs in vascular remodelling after injury”
Main subjects: Cardiology, Molecular biology, Cell biology and Immunohistochemistry.
- **March 2012 – May 2012:** Trainee at Regional Center of Neurogenetics, Lamezia Terme (Catanzaro), (IT)
Project Title: “Genetic screening of mutations involved in Alzheimer Disease”
Main subjects: Genetics, Neurology.
- **December 2010 – February 2012:** Graduate student at “Institute of Genetics and Biophysics” of CNR. Naples (IT).
Project Title: “Analysis of crossing-over formation in *C. elegans* in the absence of factor MSH-4”
Main subjects: Molecular Biology, Genetics, and Microscopy.
- **April 2009 – September 2009:** undergraduate student at “II Policlinico” University Hospital; Naples (IT).
Project Title: “Study of a new satellite DNA in *D. pictus*”
Main subjects: Biology, Chemistry, Cytology, and Computer Science.

Publications:

- **Gareri C**, Bennardo L, De Masi G. Use of a new cold plasma tool for Psoriasis treatment: a case report. *SAGE Open Med Case Rep.* 2020 May 13;8:2050313X20922709.
- Cordaro L, De Masi G, Fassina A, **Gareri C**, Pimazzoni A, Desideri D, Indolfi C, Martines E. The role of thermal effects in plasma medicine applications: biological and calorimetric analysis. *Appl. Sci.* 2019, 9(24), 5560.
- Yu SM, Jean-Charles PY, Abraham DM, Kaur S, **Gareri C**, Mao L, Rockman HA, Shenoy SK. *The deubiquitinase ubiquitin specific protease 20 is a positive modulator of myocardial β 1-adrenergic receptor expression and signaling.* *J Biol Chem.* 2018 Dec 11. pii: jbc.RA118.004926. doi: 10.1074/jbc.RA118.004926.
- Indolfi C, Iaconetti C, **Gareri C**, Polimeni A, De Rosa S. *Non-coding RNAs in vascular remodeling and restenosis.* *Vascul Pharmacol.* 2018 Oct 24. pii: S1537-1891(18)30105-8. doi: 10.1016/j.vph.2018.10.006.
- De Masi G, **Gareri C**, Cordaro L, Fassina A, Brun P, Zaniol B, Cavazzana R, Martines E, Zuin M, Marinaro G, De Rosa S, Indolfi C. *PCC: a low power atmospheric plasma source for accelerated blood coagulation.* *Plasma Medicine*, 8(3):245–254 (2018)
- Wang J, **Gareri C**, Rockman HA. G Protein-Coupled Receptors in Heart Disease. *Circ Res.* 2018;123:00-00. doi: 10.1161/CIRCRESAHA.118.311403
- Sorrentino S, Iaconetti C, De Rosa S, Polimeni A, Sabatino J, **Gareri C**, Passafaro F, Mancuso T, Tammè L, Mignogna C, Camastra C, Esposito G, Curcio A, Torella D, Indolfi C. *Hindlimb Ischemia Impairs Endothelial Recovery and Increases Neointimal Proliferation in the Carotid Artery.* *Sci Rep.* 2018 Jan 15;8(1):761. doi: 10.1038/s41598-017-19136-6.
- De Rosa S, Eposito F, Carella C, Strangio A, Ammirati G, Sabatino J, Abbate FG, Iaconetti C, Liguori V, Pergola V, Polimeni A, Coletta S, **Gareri C**, Trimarco B, Stabile G, Curcio A, Indolfi C, Rapacciuolo A. *Transcoronary concentration gradients of circulating microRNAs in heart failure.* *Eur J Heart Fail.* 2018 Jan 4. doi: 10.1002/ejhf.1119.

- Wang J, Hanada K, **Gareri C**, Rockman HA. *Mechanoactivation of the angiotensin II type 1 receptor induces β -arrestin-biased signaling through Gai coupling*. J Cell Biochem. 2017 Dec 12. doi: 10.1002/jcb.26552.
- **Gareri C**, Iaconetti C, Sorrentino S, Covello C, De Rosa S, Indolfi C, *miR-125a-5p Modulates Phenotypic Switch of Vascular Smooth Muscle Cells By Targeting ETS-1*. J Mol Biol. 2017 May 11
- **Gareri C**, De Rosa S, Indolfi C. *MicroRNAs for Restenosis and Thrombosis After Vascular Injury*. Circ Res. 2016 Apr 1;118(7):1170-84.
- Hodavance SY*, **Gareri C***, Torok RD, Rockman HA. *G Protein-coupled Receptor Biased Agonism*. J Cardiovasc Pharmacol. 2016 Mar;67(3):193-202.
- Iaconetti C, De Rosa S, Polimeni A, Sorrentino S, **Gareri C**, Carino A, Sabatino J, Colangelo M, Curcio A, Indolfi C. *Down-Regulation of miR-23b Induces Phenotypic Switching of Vascular Smooth Muscle Cells in vitro and in vivo*. Cardiovasc Res. 2015 May 20.
- Iaconetti C, **Gareri C**, Polimeni A, Indolfi C. *Non-coding RNAs: the "dark matter" of cardiovascular pathophysiology*. Int J Mol Sci. 2013 Oct 9;14(10):19987-20018.
- Torella D, Ellison GM, Torella M, Vicinanza C, Aquila I, Iaconetti C, Scalise M, Marino F, Henning B, Lewis F, **Gareri C**, Lascar N, Cuda G, Salvatore T, Nappi G, Indolfi C, Torella R, Cozzolino D, Sasso CF. *Carbonic Anhydrases Activation is Associated With Worsened Pathologic Remodeling in Human Ischemic Diabetic Cardiomyopathy*. J Am Heart Assoc. 2014 Mar 26;3(2):e000434.

ABSTRACTS:

- **Accelerated blood coagulation through the stimulation with a plasma jet.** **Gareri C.**, De Masi G., Cordaro L., Fassina A., Brun P., Mignogna C., Tammè L., Iaconetti C., Zaniol B., Cavazzana R., Martines E., Zuin M., Indolfi C.
24th International Symposium on Plasma Chemistry. June 9-14, 2019; Naples, Italy.
- **Electrical and optical diagnostics of PCC DBD plasma source.** Cordaro L., De Masi G., Fassina A., **Gareri C.**, Brun P., Cavazzana R., Desideri D., Mancini D., Martines E., Zaniol B., Zuin M.
24th International Symposium on Plasma Chemistry. June 9-14, 2019; Naples, Italy.
- **Design, operation and diagnostics of PCC DBD plasma source**
Fassina A., Cordaro L., De Masi G., Mancini D., **Gareri C.**, Cavazzana R., Martines E., Zaniol B., Laterza B.
24th International Symposium on Plasma Chemistry. June 9-14, 2019; Naples, Italy.
- **Accelerated blood coagulation through the stimulation with a plasma jet.** **Gareri C.**, De Masi G., Marinaro G., Tammè L., Scalise M., Iaconetti C., Cordaro L., Fassina A., Cavazzana R., Martines E., Zaniol B., Zuin M., Brun P., De Rosa S., Indolfi C.
7th International Conference on Plasma Medicine. June 17-22, 2018; Philadelphia, USA.
- **HDACs drive increased expression of beta-catenin and reduced levels of potassium channels in atrial fibrillation.** **Gareri C**, Curcio A, Pezone A, Sorrentino S, Iaconetti C, Mastroberto P, Avvedimento VE, Indolfi C.
European Heart Rhythm Association Meeting 2018, March 16-19; Barcelona.
- **A novel plasma medicine tool for accelerated haemostasis.** De Masi G., Cordaro L., Fassina A., Cavazzana R., Martines E., Zaniol B., Zuin M., Brun P., Jaeho K., Yamada H., Sakakita H., Ikehara Y., Gareri C., Marinaro G., De Rosa S., Indolfi C.
26th International Toki Conference. December 5-8 2017 Ceratopia Toki, Japan
- **4796 Modulation of Exosomal microRNA in patients with severe Aortic Stenosis after Transcatheter Aortic Valve Implantation (TAVI).** S De Rosa, C Gareri, C Iaconetti, MT Di Martino, MA Makara, W Tian, L Tamme, MA Amatruda, S La Bella, A Mongiardo, P Tassone, C Spaccarotella, HA Rockman, C Indolfi.

European Society of Cardiology Congress 2017, August 26-30; Barcelona, Spain.

- **Mechanical Stretch Activates Biased AT1R Signaling through a Unique B-arrestin Conformation.** Gareri C, Paulo JA, Kashai AW, Wang J, Hanada K, Staus DP, Wingler LM, Gygi SP, Rockman HA. *American Heart Association Meeting, November 11 - 15, 2017; Anaheim, California.*
- **Mechanical Stretch Activates Biased AT1R Signaling And A Distinct β -arrestin conformation.** Gareri C, Wang J, Hanada K, Kashai AW, Xiong X, Rajagopal S, Rockman HA. *Basic Cardiovascular Science meeting of the American Heart Association 2017. July 10-13, Portland (OR).*
- **Mechanical Stretch Activates β -arrestin Biased AT1R Signaling through a Unique Conformation.** Gareri C, Paulo JA, Kashai AW, Stas DP, Wingler LM, Rockman HA. *Cardiovascular Symposium Duke-Stanford 2017. May 22-23, Durham (NC).*
- **TWIK-Related Acid-Sensitive K⁺ Channels Affect the Development of Aortic Root Aneurysms in Mice.** Torok RD, Abraham DM, Gareri C, Mao L, Rockman HA. *Circulation 134 (Suppl 1), A15299-A15299*
American Heart Association Meeting, November 11 - 15, 2016; New Orleans, Louisiana.
- **Transcoronary gradient of circulating microRNAs in heart failure.** De Filippo O, Rapacciuolo A, Gareri C, Sabatino J, Maresca G, Agresta A, Curcio A, Carella C, Indolfi C, De Rosa S. *EUROPEAN HEART JOURNAL 36, 1028-1028*
European Society of Cardiology Congress 2015. 29 August - 02 September, London (UK).
- **Loss of Early Vasodilator Response at the Brachial Artery Predicts the Presence of Critical Coronary Stenoses.** De Rosa S, Irace C, Ambrosio G, Carallo C, Covello C, Tripolino C, Gareri C, Abramo E, Indolfi C, Gnasso A. *Circulation. 2015;132:A15249*
American Heart Association Meeting, November 07 - 11, 2015; Orlando, Florida
- **Mir-16 Modulates Endothelial Dysfunction After Balloon Injury in a Rat Model of Chronic Peripheral Ischemia.** Sorrentino S, Polimeni A, Iaconetti C, Sabatino J, Gareri C, Carino A, Passafaro F, Colangelo M, Covello C, Caria F, Carvelli A, Tavernese A, Curcio A, De Rosa S, Indolfi C. *Circulation. 2013;128:A18119*
American Heart Association Meeting, November 16-20, 2013; Dallas, Texas.
- **Down-Regulation of miR-23/27/24 Clusters by TGF- β 1 Signalling Induces Phenotypic Switching of Vascular Smooth Muscle Cells *in vitro* and in Response to Vascular Injury *in vivo*.** Iaconetti C, Polimeni A, Sorrentino S, Sabatino J, Gareri C, Passafaro F, Colangelo M, Covello C, Caria F, Carvelli, Curcio A, De Rosa S, Indolfi C. *Circulation. 2012;126:A19616*
American Heart Association Meeting, November 3-7, 2012; Los Angeles, California.
- **The Role of Mir-16 on Endothelial Dysfunction in Rat with Atherosclerotic Diet with a Chronic Model of Femoral Artery Occlusion and Carotid Balloon Injury.** Sorrentino S, Polimeni A, Iaconetti C, Sabatino J, Gareri C, Passafaro F, Colangelo M, Covello C, Caria F, Carvelli A, Miceli M, Giampà S, Curcio A, De Rosa S, Indolfi C. *Circulation. 2012;126:A19506*
American Heart Association Meeting November 3-7, 2012; Los Angeles, California.

Others

- “75° Congresso Nazionale della Società Italiana di Cardiologia”. December 13-15, 2014; Rome. **Oral presentation.**
- “74° Congresso Nazionale della Società Italiana di Cardiologia”. December 14-16, 2013; Rome. **Oral presentation.**
- “Progress in Cardiovascular Research: 4th Meeting of the Italian Council of PhD Fellows”, November 6-8, 2013; Erice, Italy. **Oral presentation.**
- “Progress in Cardiovascular Research: 3rd Meeting of the Italian Council of PhD Fellows”, October 18-20, 2012; Erice, Italy. **Oral presentation.**

- “73° Congresso Nazionale della Società Italiana di Cardiologia”. December 15-17, 2012; Rome.
Poster.

Catanzaro, 28/08/2020

Clara Lorenzi