

- Italian- Mother tongue
- English B2 : IELTS British • Council certificate 6.5

SPECIFIC SKILLS

- Cell culture (hAFSC, cardiomyocytes);
- Cellular imaging (Cytofluorimetry, Immunofluorescence);
- Extracellular Vesicles Separation and Characterization
- Imagej Analysis
- Excellent knowledge of Windows • Office and Mac OS systems;
- Good knowledge of computeraided design (CAD), particularly of Rhinoceros program the and SOLIDWORKS:
- Good knowledge of the Nastran-Patran programming language

SOFT SKILLS

- Problem Solving
- Team work and communication skills

QUALIFICATIONS

 BIOLOGY AND MANAGEMENT OF LABORATORY ANIMALS, RODENTS, AND LAGOMORPHS Certificate, Zooprophylactic Experimental Institute of Lombardy and Emilia Romagna "Bruno Ubertini" (2022)

LAURA GUERRICCHIO

PhD Student in biotechnology in translational medicine at University of Genova, Italy

I am Laura Guerricchio, a Ph.D. student in Biotechnology for Translational and Precision Medicine at the University of Genova, Italy. I have a Master's Degree in Biomedical Engineering, at the Polytechnic University of Turin, where I've learned the main cellular techniques, especially for adult human cardiomyocytes. Since that time the field of cardioprotection and cardiac regenerative medicine have fascinated me so much that I wanted to continue my studies with a Ph.D., which would allow me to pursue cardiac tissue research. Currently, my doctoral project involves the study of extracellular vesicles (EVs) released from human amniotic fluid stem cells (hAFSC-EVs), which recent studies have shown to have regenerative and protective potential on cardiomyocytes. My research is focused on the surface modification of hAFSC-EVs to specifically target them to cardiac cells in in vitro and in vivo models of anthracycline drug therapy-induced cardiotoxicity.

EDUCATION

PHD STUDENT IN BIOTECHNOLOGY FOR TRANSLATIONAL AND PRECISION MEDICINE

University of Studies of Genoa | Genoa, Italy| 2022-present

• Supervisor: Sveva Bollini, PhD Assistant Professor, Regenerative Medicine Lab. Department of Experimental Medicine (DIMES) University of Genoa, Italy.

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Project: Engineering of extracellular vesicles derived from amniotic fluid stem cell secretome (hAFSC-EVs) to optimize their of doxorubicin cardioprotective effect in in vitro models cardiotoxicity

MASTER'S DEGREE IN BIOMEDICAL ENGINEERING

Polytechnic University of Turin | Turin, Italy | 2020-2022

- Grade: 110/110 cum Laude
- The course aims to study methods for designing biocompatible materials, biomimetic scaffolds and drug delivery systems, static and dynamic cell culture techniques (bioreactors), methods for gene therapy and cell therapy strategies; methods for designing biomimetic systems for regenerative medicine.
- Master Thesis: During my master's thesis, I worked on the development of an in vitro electrostimulation system to induce maturation of adult human cardiomyocytes, to create an easy-touse and reliable model to test new therapies and evaluate their efficacy on the regeneration of the myocardium. My thesis was part a European project, BIORECAR (Supervisor: Valeria Chiono), which deals with the development of new regenerative medicine techniques for the regeneration of infarcted myocardium.

BACHELOR'S DEGREE IN BIOMEDICAL ENGINEERING

Polytechnic University of Turin | Turin, Italy | 2015-2020

l authorize the processing of my personal data in the curriculum vitae in accordance with Legislative Decree No. 196 of June 30, 2003 and GDPR -EU Regulation 2016/679