



Sveva Bollini

Associate professor

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Education and training

2009

PhD

University of Padova - Padova - IT

Academic experience

2017 - ONGOING

Associate Professor

Università di Genova - Genova - IT

Comprehensive characterization of the human amniotic fluid stem cell secretome for myocardial regeneration

2014 - 2017

Tenure Track Assistant Professor (Ricercatore Tempo Determinato Tipo B)

Università di Genova Dipartimento di Medicina Sperimentale - Genova - IT

Analysis of the cardio protective potential of the human amniotic fluid stem cell secretome

2011 - 2013

Post Doc Research Associate on a British Heart Foundation Programme Grant

University of Oxford Dept. Physiology Anatomy and Genetics - Oxford - GB

Functional characterization of different subpopulation of resident epicardial derived progenitor cells in a preclinical murine model of myocardial infarction

2009 - 2011

Post Doc Research Fellow on a British Heart Foundation Programme Grant

UCL - University College London Institute of Child Health - London - GB

Analysis of the regenerative potential of resident epicardial derived progenitor cells in a preclinical mouse model of myocardial infarction

2008 - 2009

Visiting PhD Student

UCL - University College London Institute of Child Health - London - GB

Analysis of the cardiomyogenic regenerative potential of fetal stem cells

2006 - 2009

PhD Student

Università di Padova - Padova - IT

Analysis of the cardiomyogenic regenerative potential of human fetal stem cells

Language skills

English

Proficient

CAE Advanced

English Certificate

Teaching activity

2016 – present:

Member of the Institute of Higher Education (IANUA-ISSUGE) of University of Genova, Italy in charge of arranging seminars and lectures given by Italian experts in preclinical and clinical cardiac regenerative medicine for undergraduate medical and biotechnology students.

2014 - present:

Lecturer in Biology and Basic Genetics for the Bachelor of Science in Nursing, Physiotherapy and Physical Education and in Cell Biology II and Laboratory for the Master of Science in Medical-Pharmaceutical Biotechnology at the University of Genova, Italy.

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

• 2017-present:

Co-Supervisor of Ms. Francesca Campagnoli, PhD student in Biotechnology for Translational Medicine, XXXIII Cycle, Experimental Medicine Department, University of Genova, Genova, Italy.

• 2017-present:

Supervisor of Ms. Ambra Costa, Master of Science student in Medical Biotechnology, University of Genova;

• 2015-2017:

Supervisor of Ms. Carolina Balbi, PhD student in Biotechnology for Translational Medicine, XXX Cycle Experimental Medicine Department, University of Genova, Genova, Italy.

• 2014-2017:

Supervisor of Mr. Edoardo Foscoli, Bachelor student in Biotechnology, University of Genova, Genova, Italy.

• 2006-2007:

Co-Supervisor of Ms. Elisa Bertacco for her MSc. thesis from the Biology Department of the University of Padova, Padova, Italy.

• 2006-2007:

Co-Supervisor of Ms. Sara Pizzato for her MSc. thesis from the Chemical Engineering Department of the University of Padova, Padova, Italy.

PhD committees membership

2015 - present:

Member of the PhD School in Biotechnology in Translational Medicine Committee, University of Genova, Italy.

Research interests

1. Characterization of the cardiac regenerative paracrine potential of human amniotic fluid stem cells (hAFS) isolated from leftover samples of II trimester amniotic fluid obtained via amniocentesis prenatal screening or from III trimester clinical waste amniotic fluid from scheduled C-section delivery (perinatal hAFS) in preclinical rodent models of myocardial infarction and drug-induced cardiotoxicity;
2. Comprehensive profiling of fetal versus perinatal hAFS secretome fractions (including extracellular vesicles - EV)
3. Definition of the myocardial renewal potential of hAFS secretome in extending the neonatal regenerative potential up to adulthood via functional restoration of resident cardiomyocyte proliferation
4. Analysis of blood circulating extracellular vesicles and exosomes as informative markers for liquid biopsy screening in cancer patients (i.e. colon cancer)

Grants

2014 - 2017

Analysis of the cardio protective potential of the human amniotic fluid stem cell secretome

MIUR - Italian Ministry of Research and Education Programma Giovani Ricercatori "Rita Levi Montalcini" bando 2012 - IT

Principal investigator

Assignments abroad

01/10/11-15/03/13:

Post Doc Research Fellow, Department of Physiology, Anatomy and Genetics, University of Oxford, Oxford OX1 3PT, UK. Project title: Lineage Characterization of Adult Epicardium-Derived Progenitor Cells: Stemness, Multipotency and Contributions to Cardiovascular and Endogenous Repair.

07/01/09-30/09/11: Post Doc Research Fellow, Molecular Medicine Unit, UCL- Institute of Child Health, London WC1N 1EH, UK. Project title: Lineage Characterization of Adult Epicardium-Derived Progenitor Cells: Stemness, Multipotency and Contributions to Cardiovascular and Endogenous Repair.

Other professional activities

2018 – present:

Member of the Research Quality Control Working Group of the Department of Experimental Medicine, University of Genova.

2017 - present:

Member of University of Genova Working Group for promoting collaborative interaction with the Life Science Committee in Regione Liguria.

2016- present:

External Reviewer for the H2020 Programme Future and Emerging Technologies (FET) Open and Pro-Active Initiative.

2015:

External Expert for the European Cooperation in Science and Technology (COST) programme.

Member of the following scientific societies:

European Society of Cardiology (ESC), Perinatal Stem Cell Society, International PLAcenta Stem cell Society (IPLASS), Italian Federation of Cardiology (FIC or SIC, Società Italiana di Cardiologia), Italian Society of Cardiovascular Research (SIRC, Società Italiana di Ricerca Cardiovascolare), Stem Cell Research Italy, Italian Society of Mesenchymal Stem Cells (GISM, Gruppo Italiano Staminali Mesenchimali), Italian Society for Biology and Genetics (AIBG, Associazione Italiana Biologia e Genetica).