

PERSONAL INFORMATION

**Piera De Gaspari**



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STUDIES APPLIED FOR

**PhD**

WORK EXPERIENCE

- 
- Feb 2016-Currently **Biologist/Biotechnologist working on collaboration basis**

Istituto di Ricerca Pediatrica (IRP) - Fondazione Città della Speranza, scientific supervisor Dr. Giometto (Neurology Dept., Sant'Antonio Hospital, Padua)
  - Jun 2014-Aug 2015 **Postdoctoral position**

Max Planck Institute for Heart and Lung Research, Bad Nauheim, Hessen in the prof. Thomas Braun Department
  - Dec 2011 **Flow Cytometry Training (one week), Bad Nauheim, Germany**

BD Biosciences Introduction into Flow Cytometry Bad Nauheim, Germany
  - Ago 2011 **Muscle histology technique Training (one week), Paris, France**

INSERM unit, UMR S 787-Groupe Myologie, Pitié Salpêtrière Medical School
  - Apr 2010-May 2010 **Lung histology and surgical technique Training, Ohio, USA**

Division of Pulmonary Biology, Cincinnati Children's Hospital, Cincinnati
  - Oct 2009 **Microscopy training (one week), Paris, France**

The course In vivo imaging "from molecule to organism" Postgraduate School Molecular Medicine, Erasmus MC, Rotterdam
  - Apr 2008-Feb 2009 **Research Fellow**

Stem Cell Processing Laboratory, Venetian Institute of Molecular Medicine (VIMM), scientific supervisor Dr Paolo De Coppi (UCL, London,UK)
  - Mar 2007- Mar 2008 **Dissertation Internship**

Stem Cell Processing Laboratory, Venetian Institute of Molecular Medicine (VIMM), scientific supervisor Dr Paolo De Coppi (UCL, London,UK)
  - Jul 2006- Feb 2007 **Internship as Pharmacist**

Pharmacy San Marco, Pianiga, Venice, Italy, Dr Bruno Boscia
  - May 2006 **Internship as Laboratory technician**

Laboratory of chemistry and coagulation analyses USSL 13, Dolo Hospital, Venice, Italy

## EDUCATION AND TRAINING

- Mar 2009- Jun 2014 **PhD student**  
Max Planck Institute for Heart and Lung Research, Bad Nauheim, Hessen  
PhD Project entitled "Lineage tracing of Sca1-expressing cells in Heart and Skeletal Muscle"
- Jul 2008 **Pharmacist license**  
State examination University of Padua, Pharmacy Department
- Oct 2002- Jun 2008 **Pharmaceutical Chemistry and Technology Master degree**  
"Laurea Magistrale a ciclo unico" University of Padua, Italy, Pharmacy Department  
Thesis entitled "Murine mesenchymal stem cells: characterization and preliminary experiments of cell transplantation through collagen scaffold"

## PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	B2	B2	B2	B2	B2
French	A2	A2	A2	A2	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
Common European Framework of Reference for Languages

Job-related skills

**Postdoc, PhD, internships**

- Work and handle animal models, in particular mice
- Use *in vivo* cell lineage tracing techniques, considering different transgenic mouse models, both inducible (mainly based on Tetracycline system Tet-Off) and constitutive
- Use *in vivo* regeneration models for cardiac and skeletal muscle stem cells such as transverse aortic constriction, ischemia reperfusion, cardiotoxin injection
- Perform *in vivo* animal experiments such as cells transplantation, i.v. injections, i.p. injections, i.m. injections surgical operations (e.g. pneumonectomy)
- Genotype
- Culture, isolate and differentiate *in vitro* both primary fresh isolate cells from heart and skeletal muscle and as well as cells lines (eg C2C12, P19, HEK cells)
- Transfect cells using different approaches (eg Ca2Cl, Lipofectamine 3000, Lentivirus)
- Acquire basic molecular biology techniques as RNA extraction (Trizol and Quiagen kit), PCR, Single cells PCR using Fluidigm technology, Western blot
- Develop knowledge in Immunohistochemistry (eg. Thrichrome staining, H&E, Oil red O, Alizarin red, Alkaline Phosphatase, Bgalactosidase stainings)
- Refine and optimize immunofluorescence techniques and protocols (eg. the possibility to use 4-5 different fluorophores in combination at the same time)
- Handle the Cryostat (eg. Leica)
- Acquire knowledge in microscopy using Zeiss microscope, Keyence microscope and Leica SP2 Confocal with some basic knowledge of Zeiss LMS 750 Confocal
- Perform cytofluorimetric analyses using BD LS II Cytofluorimetric Analyzer
- Acquire basic knowledge of FACS sorting using BD FACS Aria III

Internship as Laboratory technician

- Receive and process patient samples such as blood, serum, urine
- Operate automated and computerized equipment to run different physiological tests on the sample received
- Keep the daily maintenance and good functioning of the laboratory equipment (eg. refill the specific reagents necessary to run the tests)
- Monitor samples and record normal and eventual abnormal variances and promptly inform the doctors in case of critics results, important for the health of the patients
- Log data from medical tests and enter results into a patient's medical record

Internship in the Pharmacy

- Dispense drugs to patients based on the medical prescription
- Check the presence of eventual mistakes in the prescriptions and be sure to give the right dosage to the patients
- Explain the patients the proper use and storage of the medications together with the possibility eventual side effects
- Inform the patient where possible about the use and the difference of generic and specific drugs giving the chance to the patients to choose
- Distribute of some galenic medicaments based on the rules of the Pharmacy
- Order, sort and store in appropriate way the medicaments
- Talk with the patients and check the efficacy of the drugs they used
- Be supportive and guarantee the presence of the request medicaments
- Talk to regular patients to see how their treatment is going

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Proficient user	Basic user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

- good command of office suite (Word, Excel, Power Point)
- good command of photo editing software gained as an amateur photographer (Adobe Photoshop/Adobe Illustrator)
- good command of graphing and statisticals software (Graphpad-Prism5)
- good command of sequence editing and annotation, primer design and virtual DNA cloning software (DNASTAR Seqbuilder)
- good command of microscopy software (Leica, Zeiss, Keyence)
- good command of cytofluorimetric analyses software (Diva-BD)
- good command of Biological database and analyses (Pubmed, Ensemble, NCBI, miranda)

Soft skills

Committed, strong-willed, enthusiastic and positive person, good communication skills and interaction with the project team in multicultural environment. Ability to lead and teach others colleague and students (eg responsible of Confocal imaging in Thomas Braun Department). Good organization and problem solving skills, time management skills, good adaptability and creativity, great capacity to work under pressure as well to make decisions

Driving licence

B

## ADDITIONAL INFORMATION

### Publications

- Ogawa R., Ma Y., Yamaguchi M, Ito T., Watanabe Y., Ohtani T., Murakami S., Uchida S., **De Gaspari P.**, Uezumi A., Nakamura M., Miyagoe-Suzuki Y., Tsujikawa K., Hashimoto N., Braun T., Tanaka T., Takeda S., Yamamoto H. and Fukada S. *"Doublecortin marks a new population of transiently amplifying muscle progenitor cells and is required for myofiber maturation during skeletal muscle regeneration"*. Development, 2015 Jan 1;142(1):51-61
- **De Gaspari P., Uchida S.**, Kostin S., Jenniches K., Kilic A., Izumiya Y, Shiojima I, Kreymborg Kg, Renz H, Walsh W, and Braun T. *"Sca1-derived cells are a source of myocardial renewal in the murine adult heart"* Stem Cell Report, 2013 Oct 24;1(5):397-410
- Gellert P., Teranishi M., Jenniches K., **De Gaspari P.**, John D., Kreymborg K.g., Braun T., Uchida S. *"Gene Array Analyzer: alternative usage of gene arrays to study alternative splicing events"*. Nucleic Acids Res. 2012 Mar; 40(6):2414-25
- Uchida S., **De Gaspari P.** and Braun T., *"Are We There Yet?"* Chapter 9, Stem Cells in Clinic and Research, Edited by Ali Gholamrezanezhad, InTech (2011)
- Pozzobon M., Bollini S., Iop L., **De Gaspari P.**, Chiavegato A., Rossi C.A., Giuliani S., Fascetti Leon F., Elvassore N., Sartore S., De Coppi P. *"Human bone marrow-derived CD133(+) cells delivered to a collagen patch on cryoinjured rat heart promote angiogenesis and arteriogenesis"*. Cell Transplant. 2010; 19(10):1247-60

### Conferences & Seminars

- **CGT** (Cell and Gene Therapy) Workshop, "Reprogramming, 2013, Frankfurt, Germany
- **IMPRS** (International Max Planck Research School) retreat, Kloster Höchst 2011 & 2012, Germany
- **GGL** (International Giessen Graduate School for the Life Sciences) annual conference, 2010, 2011 & 2012, Giessen, Germany
- **UGLMC** (Universities of Giessen and Marburg Lung Center) Symposium, *Remodeling, Repair & Regeneration in Lung Diseases*, 2011 Lich & 2012 Marburg, Germany
- **MPI** (Max Planck Institute) Retreat, Schloß Rinberg 2011, Tegernsee
- **EMBO** (European Molecular Biology Organization) conference, *Myogenesis: the molecular and cellular mechanism regulating skeletal muscle development & regeneration*, 2011 Wiesbaden, Germany (Posterpresentation)
- Georg-Speyer Haus Conference, 2010 Frankfurt, Germany
- **IMPRS & MBML** retreat, 2010 Rauschulzhausen, Germany
- **49<sup>th</sup> Annual Midwest Development Biology meeting**, Cincinnati Children's Hospital, 2010 Cincinnati, Ohio (USA)
- **ECCPS** (Excellence Cluster Cardio-Pulmonary System) Retreat, poster presentation, 2010 Bad Nauheim, Germany
- **Encefalomieliti: uno sguardo s'insieme**, 19 February 2016, Verona Policlinic

### Honours and awards

Poster Prize in the IMPRS/MBML retreat (2009), Rauschulzhausen, Germany

### Memberships

- **GGL** (International Giessen Graduate School for the Life Sciences)
- **IMPRS** (International Max Planck Research School)