# *Curriculum Vitae et Studiorum*

## Personal informations


Name: **Roberta Carusone**

Nationality: Italian

Date of birth: 29/06/1985

Place of birth: Teano (CE)

Address: Via Canobbio, 28 37132 Verona (VR)

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## Education and training

**2014- present:** Post-Doc Fellowship at Stem Cells Research Laboratory, directed by Prof. Mauro Krampera (Verona)

**2011-2013:** PhD in "Oncological Pathology and Stem Cells" (Università degli Studi di Verona)
Thesis: "Quality controls in Advanced Therapy Medicinal Products: safety assessment of Mesenchymal Stromal Cells to treat human bone defects"
Tutor: Prof. Mauro Krampera, Dipartimento di Medicina Interna, sezione di Ematologia

**2011- present:** Regenerative medicine studies and clinical applications of mesenchymal stem cells, in collaboration with the Cell Factory afferent to "Dipartimento Interaziendale di Medicina Trasfusionale", Azienda Ospedaliero-Universitaria Integrata di Verona

**2010:** 4 months training at Stem Cells Research Laboratory, directed by Prof. Mauro Krampera (Verona)

**2010:** Professional qualification in Biology (Seconda Università degli Studi di Napoli)

**2008-2009:** 12 months training at "Dipartimento di Medicina Interna", section of "Immunoallergologia e Terapie Cellulari" ,Università degli Studi di Firenze

**2009:** Master degree in Medical Biotechnology (Università degli Studi di Firenze)
Vote: 110/110 cum laude
Thesis: " Lentiviral vectors in the induction of Th17 phenotype in human CD4 lymphocytes"
Tutor: Prof. Francesco Annunziato, Dipartimento di Medicina Interna, sezione di Immunoallergologia e Terapie cellulari

**2007:** Bachelor in Biotechnology (Seconda Università degli Studi di Napoli)
Vote: 110/110 cum laude
Thesis: Role of ubiquitin-proteasome system in the formation of aterosclerotic plaque in diabetes"
Tutor: Prof. Michele D'Amico, Dipartimento di Medicina Sperimentale, sezione di Farmacologia

**2004:** High school degree in Classical Studies at "Liceo Classico Cneo Nevio" di Santa Maria Capua Vetere (CE), vote 100/100

## Personal competences

### Technical skills

- Immunomagnetic cell isolation. Stem cell isolation from different sources and culture methods. DNA and RNA extraction, proteic and nucleic acid dosage, FACS, PCR, gel electrophoresis, proliferation assay with $H_3$TdR, cytotoxicity assay. Immunoistochemical techniques. Immunophenotypic and functional charachterization of mesenchymal stem cells (differentiation and immunomodulatory properties). Mutagenesis and senescence assays. In vitro expansion of hematopoietic stem cells, clonogenicity (CFU) and long term culture (LTC-IC) assays.

- Training on the rules of Good Manufacturing Practice (GMP). Writing of Standard Operating Procedures (SOP) for clinical trials in humans. Quality controls on raw materials and on finished pharmaceutical products and monitoring of the production process of Advanced Therapy medicinal products. Ability to work aseptically in controlled environments (clean rooms); Standardization of cell expansion ex-vivo according to GMP rules and assessment of tests aimed at the determination of purity, identity, stability of regenerative medicine products. Management of cleanrooms (cleaning, clothing, equipment, initial validation and periodic qualification, maintenance and support documentation). Risk analysis for proper microbiological monitoring of a cleanroom; CAPA application for management of deviations and OOS. Participation in "GMP days" organized by Quality Systems Training & Consulting: "Writing effective SOP" and "The cGMP in advanced cell therapies ".

### Informatic skills

- European Driving Computer Licence (ECDL);
  Windows Me, Xp, Vista, Windows 7, MacOS, Microsoft Office, Adobe Acrobat, FlowJO, EndNote, BD FACSdiva.

**Mother tongue**: Italian

Other languages: English

Reading skills: very good
Writing skills: very good
Speaking skills: good

Other languages: French

Reading skills: basic
Writing skills: basic

Speaking skills: basic

## Pubblications

- Adipose-derived stromal cells (ASCs), Bassi G et al, Transfus Apher Sci 2012
- Notch signalling drives bone marrow stromal cell-mediated chemoresistance in acute myeloid leukemia. Takam Kamga P. et al, Oncotarget 2016
- Differential and transferable modulatory effects of mesenchymal stromal cell-derived extracellular vesicles on T, B and NK cell functions. Di Trapani M et al, Sci Rep 2016

Verona (Italy), July 26th, 2016