


## PERSONAL INFORMATIONS

WORK  
EXPERIENCE**Maria Vittoria Colombo**

 Gallarate (VA), Italy

 [maria vittoria.colombo@mail.polimi.it](mailto:maria vittoria.colombo@mail.polimi.it)  
[maria vittoria.colombo@grupposandonato.it](mailto:maria vittoria.colombo@grupposandonato.it)

Date of Birth 16/10/1991 | Nationality Italian

11/2017 – Present

**Researcher**

Cell and Tissue Engineering Lab of IRCCS Galeazzi Orthopedic Institute, Milan (Italy)

Research activity:

- Continuation of activities performed during the internship to write a scientific paper;
- Use of 3D models to study bone and muscle metastasis

11/2016 – 09/2017

**Intern**

Cell and Tissue Engineering Lab of IRCCS Galeazzi Orthopedic Institute, Milan (Italy)

Engineering a 3d functional human vascularized bone model for the study of early breast cancer metastases.

Acquired knowledges:

- Use of biological laboratory tools to perform standard and 3D cell cultures;
- Isolation of primary cells;
- Knowledges of protocols for biological analysis and cell characterization, immunofluorescence and PCR, images capturing (fluorescent and confocal microscopy).

## EDUCATION AND TRAINING

03/2015 – 10/2017

**Master's Degree in Biomedical Engineering (Specialization in Cell and Tissue Engineering and Biotechnology)**

Politecnico di Milano, Milan (Italy)

Thesis: "Engineering 3D functional human vascularized bone models for the study of early breast cancer metastases".

Principal subjects/occupational skills covered:

- Knowledges of genomics, proteomics and cell biology;
- Knowledges of biomaterials, biomimetic systems, biotechnologies and bioartificial tissues;
- Knowledges of biomolecular modelling.

09/2010 – 02/2015

**Bachelor's Degree in Biomedical Engineering**

Politecnico di Milano, Milano (Italia)

Subject of thesis: Use of an optoelectronic system to study respiratory patterns. Thesis: "Thoraco-abdominal asynchronies in children with osteogenesis imperfecta".

Principal subjects/occupational skills covered:

- Detailed study of theoretical and scientific aspects of mathematics and engineering applied to biomedical and biotechnological field.

09/2005 – 06/2010

**Scientific High School Diploma**

Liceo Scientifico Leonardo da Vinci, Gallarate (VA)

## PERSONAL SKILLS AND COMPETENCE

Mother Tongue Italian

Other Languages English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken Interaction	Spoken Production	
C1	B2	B2	B2	B2

Levels: A1/ A2: Basic User - B1/B2: Independent User - C1/C2: Proficient User  
Common European Framework of Reference (CEF)

Organizational and Social Skills Good capacity for autonomous organization of work, establishing priorities and taking on responsibilities (acquired during university education and in extra-university field working as rider in a stable). Good inclination to perform an active role in group projects and to order and precision.

E-skills Microsoft Office Package: Word, Excel, PowerPoint.  
Technical programs: ImageJ, SigmaPlot, SigmaStat, C, Matlab, NAMD + VMD.

## OTHER SKILLS AND COMPETENCE

Safety Training Knowledge of general concepts regarding prevention and safety at work and safety in chemical laboratories, acquired and attested during extracurricular courses in university. Good knowledge of general concepts regarding biohazard, chemical, carcinogenic and mutagenic, electrical risk in health, fire risk and emergency management, VDU risk, acquired and attested during courses in the workplace at Istituto Ortopedico Galeazzi.

Driving Licence B