



Margherita Montorsi

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WORK EXPERIENCE

16/10/2019 – 15/04/2020 – Pontedera, Italy

INTERNSHIP FOR MASTER EXPERIMENTAL THESIS – ISTITUTO ITALIANO DI TECNOLOGIA (IIT)-@SCUOLA SUPERIORE SANT'ANNA

During the six month I attended the research institute based in Pontedera, I could develop my own master thesis with the name "Design, Fabrication and Characterization of a Multimodal Cell Stimulation Bioreactor for Bone Tissue Engineering". The project concerned precisely the fabrication and *in silico* characterization of a fluidic bioreactor, integrated with an ultrasonic system, that hosted bone-derived cells seeded over a piezoelectric membrane. The project aimed to clarify the relationship between physical stimulations-fluidic, mechanical and electrical- and osteogenic differentiation in particular, but the device is suitable for stimulating different cell types. The good results obtained, led me to try patenting it, reaching the novelty requirement but unfortunately not the innovation one. Thus, I have recently submitted it to a research journal.

01/10/2020 – CURRENT – Pontedera, Italy

PHD STUDENT – ISTITUTO ITALIANO DI TECNOLOGIA (IIT)- @SCUOLA SUPERIORE SANT'ANNA

My PhD focus is about new anti-tumor technologies; in particular, my research interests are both the microfluidic devices for testing *in vitro* drug-delivery to tumor under dynamic conditions and also the synthesis and characterization of new "smart" nanocarriers for the active drug delivery into the tumor site.

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1
SPANISH	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

EDUCATION AND TRAINING

01/09/2009 – 02/07/2014 – Via Giuseppe Parini n.8 , Torino, Italy

DIPLOMA MATURITA' CLASSICA – Liceo Classico Massimo D'Azeglio

<https://www.liceomassimodazeglio.it/>

16/09/2014 – 17/10/2017 – C.so Duca degli Abruzzi n.24, Torino, Italy

BACHELOR DEGREE IN INGEGNERIA CHIMICA E ALIMENTARE – Politecnico di Torino

https://didattica.polito.it/laurea/ingegneria_chimica/it/presentazione

20/03/2018 – 21/10/2020 – C.so Duca degli Abruzzi n.24, Torino, Italy

MASTER DEGREE IN INGEGNERIA BIOMEDICA – Politecnico di Torino

https://didattica.polito.it/laurea_magistrale/ingegneria_biomedica/it/home

08/02/2019 – 01/07/2019 – Carrer de Martí i Franquès, 1, 11, Parc Científic de Barcelona (PCB), Barcelona, Spain

ERASMUS - E+/EU PROGRAMME COUNTRIES – Universitat de Barcelona- @ Institute for Bioengineering of Catalonia (IBEC)

<https://ibecbarcelona.eu/contact/>

● **DIGITAL SKILLS**

Very good knowledge of Microsoft Office (Word Excel PowerPoint) | Very good knowledge of Matlab | Excellent knowledge of 2D/3D Autocad & SolidWork modeling software | Very good knowledge of FEM software COMSOL Multiphysics | Social Media

● **DRIVING LICENCE**

Driving Licence: A2

Driving Licence: B

● **RECOMMENDATIONS**

Gianni Ciofani – PhD supervisor – gianni.ciofani@iit.it – (+39) 050883481

Gianni Ciofani was my professor at Politecnico di Torino during master degree and now he is my PhD supervisor

<https://www.iit.it/people/gianni-ciofani>

Carlotta Pucci – PhD collaborator – carlotta.pucci@iit.it – (+39) 050883089

Carlotta Pucci is a Post-Doc of my research group, specialized in nanomaterial synthesis; I'm collaborating with her in several project.

<https://www.iit.it/web/guest/people/-/people/carlotta-pucci>