PERSONAL INFORMATION

MARTA CRISTALDI

https://it.linkedin.com/in/marta-cristaldi

Sex Female | Date of birth | Nationality Italian

WORK EXPERIENCE

April 2017

Doctorate of Philosophy in “Oncology and Experimental Surgery”

DICHIRONS Department – Odontostomatology section – AOUP “P. Giaccone” with the collaboration of Regenerative Medicine and Molecular Endocrinology laboratory of Biomedic Department of Specialistic and Internal (DiBiMIS) and Department of Biopathology and Medical Biotechnology (DIBIMED) – Section of Biology and Genetics.

Prof. Giuseppina Campisi

Project title: In vitro and in vivo investigations of osteogenic differentiation ability of dental pulp (DPSCs) and gingival (GMSCs) stem cells by use of nanostructured scaffolds.

September 2015-March 2017

Internship at University of Palermo

Department of Biopathology and Medical Biotechnology (DIBIMED) – Section of Biology and Genetics.
Prof. Riccardo Alessandro laboratory, tutored by Ph.D Stefania Raimondo.

- I worked on development of a system focused on Chronic Myeloid Leukemia (CML) cells IL3R targeting by IL3L exosomes with purpose of cell growth inhibition.
- I experienced techniques as cell culture, Western blotting, RNA extraction, RT-qPCR, cell viability assay (MTT), immunofluorescence, siRNA downregulation system with transient transfection, shRNA overexpression system.
- Project title: Inhibition of in vitro and in vivo Chronic Myeloid Leukemia cell growth by IL3R-targeted exosomes

March 2015-August 2015

Internship at University of Helsinki
Master Thesis

Department of Biosciences, Prof. Carl Gahmberg laboratory, tutored by M.Sc. Sonja Paetau and Ph.D Lin Ning.

- I focused my study on the role of intercellular adhesion molecule 5 (ICAM-5) in neurons / microglia interaction, also studying the development of system for ICAM-5 downregulation.
- I experienced techniques as cell primary culture, cell pharmacological treatment, Western blotting, immunofluorescence and Confocal Microscopy, siRNA lentiviral downregulation system with stable transfection, cloning technology.
- I also tutored a Bachelor student.
- Master thesis title: Intercellular adhesion molecule-5 (Telencephalin) – effects in the brain microenvironment.

September 2014-February 2015

Internship at University of Palermo

Department of Biopathology and Medical Biotechnology (DIBIMED) – Section of Biology and Genetics.
Prof. Riccardo Alessandro laboratory, tutored by Ph.D Stefania Raimondo.

- I worked on isolation and characterization of Human Bone Marrow Stromal cell-derived exosomes, then analysing the selective packaging of miR-223 under hypoxic conditions.
- I experienced techniques as cell culture, Western blotting, cell viability assay (MTT), RNA extraction, RT-qPCR.
- Project title: Isolation and Characterization of Human Bone Marrow Stromal cell-derived exosomes: selective packaging of miR-223

March 2014-July 2014

Internship at University of Palermo

Department of Experimental biomedicine and Clinical Neuroscience (BioNec).
Prof. Natale Belluardo laboratory, tutored by Ph.D Monica Frinchi.

- I analysed the role of Muscarinic Achetylcholine receptors (mAchRs) on Fibroblast growth factor receptor 1 (FGFR1) transactivation, then investigating the effects of magnetic stimulation on hippocampal neuron plasticity.
- I experienced techniques as cell primary culture, cell pharmacology treatment, cell magnetic stimulation and Western blotting.
- Project title: Analysis of mAchRs role on FGFR1 transactivation and preliminary study of molecular and functional effects induced by magnetic stimulation on hippocampal primary neurons.

March 2013-July 2013

Internship at CNR – National Research Council, Palermo Bachelor thesis

IBIM – Institute of Biomedicine and Molecular Immunology “A.Monroy”.
Prof. Paolo Colombo laboratory, tutored by Dott.ssa Giovanna Montana.

- I worked on rPjED recombinant dimer purification, also evaluating the allergenic attivity on Parietaria allergic patients-basophil cells.
- I experienced techniques as bacterial culture, recombinant protein expression, chromatography techniques, immunocytochemistry and flow citometry.
- Bachelor thesis title: Purification and allergenic activity of rPjED recombinant dimer.

EDUCATION AND TRAINING

October 2013-March 2016

M.Sc. Medical Biotechnology and Molecular Medicine

University of Palermo – School of Medicine and Surgery – grade 110/110 cum Laude and Honors.
Thesis title: Intercellular adhesion molecule-5 (Telencephalin) – effects in the brain microenvironment.

October 2009-July 2013

B.Sc. Biological Sciences

University of Palermo – School of Base and Applied Sciences – grade 107/110
Thesis title: Purification and allergenic activity of rPjED recombinant dimer.

September 2004-July 2009

Classic State High School Diploma – grade 85/100

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	IELTS Certificate – Overall Band Score 6,5 (**QCER B2**)				

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

Communication, social and job related skills

Good communication skills gained through home and abroad experiences. Good ability to work in a group and multicultural environment. Good capacity to listen and to follow instructions as well as work autonomously. Strong sense of responsibility; organized and reliable. Inclination to strictly follow every objective. Good attitude in work planning and time management in order to follow project deadlines. Good ability to tackle encountered difficulties.

Digital competence

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

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

- Good knowledge of Microsoft Word, Excel and Power Point.

ADDITIONAL INFORMATION

Publications

Raimondo S, Bellavia D, Calabrese G, Forte S, Patinella A, **Cristaldi M**, Memeo L, Giavaresi G, De Leo G, Alessandro R. *Interleukin 3- receptor targeted exosomes inhibit in vitro and in vivo Chronic Myelogenous Leukemia cell growth* (***Theranostic***).

Raimondo S, Bellavia D, Calabrese G, Forte S, Patinella A, **Cristaldi M**, Memeo L, Giavaresi G, De Leo G, Alessandro R. *Inhibition of in vitro and in vivo Chronic Myeloid Leukemia cell growth by IL3R-targeted exosomes*. Abstract presentation at International Society for Extracellular Vesicles (ISEV) conference – Rotterdam 2016

Raimondo S, Bellavia D, Calabrese G, Forte S, Patinella A, **Cristaldi M**, Memeo L, Giavaresi G, De Leo G, Alessandro R. *Inhibition of in vitro and in vivo Chronic Myeloid Leukemia cell growth by IL3R-targeted exosomes*. Abstract presentation at Exosomes in pathological conditions: new insights for biomarker development and therapeutic applications – Rome 2016

Certifications

-Certificate of achievement-Eight International Summer School on **Advanced Topics in Cell Model Systems** -Roma, 24 Giugno 2016

-English Certificate QCER B1 (International House-Language Centre ,Palermo)

-English Language **IELTS Certificate** – Overall Band Score 6,5 (**QCER B2**)

-**Basics of Extracellular Vesicles** by University of California, Irvine on Coursera, Certificate earned on October 9, 2016

-Qualified as a **Professional BIOLOGIST** – 2nd Session 2016

Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali”.