

## BIOGRAPHICAL SKETCH

<b>NAME</b> Francesca Oltolina	<b>POSITION TITLE</b> Research Fellow, Dept of Health Sciences, School of Medicine, Università del Piemonte Orientale, Novara, Italy		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
- Inerfaculty of Biotechnology, Università del Piemonte Orientale, Novara, Italy - Faculty of Medical Biotechnology, Università del Piemonte Orientale, Novara, Italy - PhD in Biotechnology for Human Health, Università del Piemonte Orientale, Novara, Italy	B.Sc.  M.Sc.  PhD	2006-2010  2010-2012  2012-2015	Molecular Biology  Tissue engineering  Nanomedicine

### A. Positions and Honors.

#### Honors

- ImmunoTools special Award 2014
- 1<sup>st</sup> Prize Poster Competition and accommodation grant at 4<sup>th</sup> International School on Biological Crystallization, Granada, Spain 2013.

### B. Publications

- Martínez-Casado FJ\*, Gómez Morales J\*, Delgado López JM, Iafisco M, Martínez Benito C, Ruiz Pérez C, Colangelo D, Oltolina F, Prat M. *Bio-inspired citrate-apatite nanocrystals doped with divalent transition metal ions*. **Crystal Growth & Design** 2016, 16 (1), pp 145–153. DOI: 10.1021/acs.cgd.5b01045
- Oltolina F, Zamperone A, Colangelo D, Gregoletto L, Reano S, Pietronave S, Merlin S, Talmon M, Novelli E, Diena M, Nicoletti C, Musarò A, Filigheddu N, Follenzi A, Prat M. *Human Cardiac Progenitor Spheroids Exhibit Enhanced Engraftment Potential*. **PLoS One** 2015;10(9):e0137999.
- Oltolina F, Gregoletto L, Colangelo D, Gómez-Morales J, Delgado-López JM, Prat M. *Monoclonal Antibody-Targeted Fluorescein-5-isothiocyanate-Labeled Biomimetic Nanoapatites: A Promising Fluorescent Probe for Imaging Applications*. **Langmuir** 2015;31(5):1766-75.
- Prat M, Oltolina F, Basilico C. *Monoclonal antibodies against the Met/HGF receptor and its ligand: multitask tools with applications from basic research to therapy*. In G. Ricci, M. Prat, A. Catizone (Eds.) “New aspects of the Hepatocyte Growth Factor/c-Met System”, special issue **Biomedicine** 2014;2:359-383.
- Prat M, Oltolina F, Gregoletto L, Delgado-López JM, Gómez-Morales J. (2014) *Nanocrystalline apatites functionalized with monoclonal antibodies for targeted cancer therapies*. In: M. Iafisco, J.M. Delgado López (Eds.) **Apatite: Synthesis, Structural Characterization and Biomedical Applications**. P. 201-223, Nova Science Publishers, ISBN: 978-1-63321-536-8.
- Pietronave S, Zamperone A, Oltolina F, Colangelo D, Follenzi A, Novelli E, Diena M, Pavesi A, Consolo F, Fiore GB, Soncini M, Prat M. *Monophasic and Biphasic Electrical Stimulation*

*Induces a Precardiac Differentiation in Progenitor Cells Isolated from Human Heart. Stem Cells Dev.* 2014;23(8):888-98.

**C. Main fields of investigation, areas of interest and know how**

- Targeted nanoparticles for drug delivery to tumour cells.
- Adult stem cells and tissue engineering applied to myocardium.
- Tumour associated markers and oncoproteins in human tumours.
- Monoclonal antibodies as probes and biomimetic tools.