

PERSONAL INFORMATION
Andrea Cochis

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WORK EXPERIENCE

2015 - to date
 Post-Doc Research Fellowship
 University of Piemonte Orientale "UPO", Novara (NO), Italy
 Laboratory of Biomedical Materials

2014 - 2015
 Post-Doc Research Fellowship
 University of Milan, Milan (MI), Italy
 Laboratory of Dental and Medical Materials and Surgery
 PhD Student

2010 - 2014
 University of Piemonte Orientale "UPO", Novara (NO), Italy
 Laboratory of Biomedical Materials

EDUCATION AND TRAINING

2014
 PhD (Cycle XXVI) in Biotechnologies for Human Health
 University of Piemonte Orientale "UPO", Novara (NO), Italy
 Laboratory of Biomedical Materials
 Visiting PhD Student

2013-2014
 AO Research Institute of Davos, Davos Platz, Switzerland
 Laboratory of Musculoskeletal Regeneration
 Visiting PhD Student

2012-2013
 AO Research Institute of Davos, Davos Platz, Switzerland
 Laboratory of Musculoskeletal Regeneration
 Molecular Biotechnologies MS degree

2010
 University of Turin, Turin (TO), Italy
 Erasmus/Socrates Visiting Student

2007-2008
 Gent University, Gent, Belgium
 Laboratory of Clinical Microbiology

PERSONAL SKILLS

 Mother tongue(s)
 Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Italian					
English	C1	C1	C1	C1	C1
French	A1	A1	A1	A1	A1
	Cambridge Preliminary English Test (PET): Level A1				

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

Communication skills

Good communication skills gained through my experience in publishing and presenting research works in international peer-reviewed journal and international congresses.

Organisational/ managerial skills

Good leadership (currently supervisor for master and junior degree students)

Job-related skills

Human cells and tissues handling, Bacteria biofilm and planktonic handling, histological assays, fluorescence assays, microscopy (optical and electron), genetic assays, stem cells manipulation, animals manipulation

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

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

Basic Computer Skills:

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software

Driving licence

License B (Italian)

ADDITIONAL INFORMATION

Publications

> 30 publications (original articles, reviews, book chapters), > 150 citations, h-index:7
1 Patent (Italian)

Honours and Awards

2016: Best Poster Award, World Biomaterials Congress (WBC)

2015: Best Young Investigator, Italian Society for Biomaterials (SIB)

2013: Best Young Investigator, Italian Society for Biomaterials (SIB)

2016-2017: Research Fellowship, University of Piemonte Orientale, Italy

2015-2016: Research Fellowship, University of Piemonte Orientale, Italy

2014-2015: Research Fellowship, University of Milan, Italy

2013-2014: Italian Fellowship, Consorzio Interuniversitario Nazionale per la Scienza e tecnologia dei Materiali (INSTM, FI, Italy)

2013: European Fellowship European Cooperation in Science and Technology (COST), Italy-Switzerland

2012: European Fellowship European Cooperation in Science and Technology (COST), Italy-Switzerland

2007: European Fellowship Socrates/Erasmus program, Italy-Belgium

SIB – Italian Society for Biomaterials

ESB - European Society for Biomaterials

Membership



Publications	
Original Articles	
1.	Cochis A , Fracchia L, Martinotti MG and Rimondini L. Biosurfactants prevent in vitro <i>C.albicans</i> biofilm formation on resins and silicon materials for prosthetic devices. <i>Oral Surg Oral Med Oral Pathol Oral Radiol.</i> 2012;113:755-761.
2.	Cochis A , Fini M, Carrassi A, Migliario M, Visai L and Rimondini L. Effect of air polishing with glycine powder on titanium abutment surfaces. <i>Clin Oral Implants Res.</i> 2013;24:904-9.
3.	Brambilla E, Ionescu A, Gagliani M, Cochis A , Arciola CR, Rimondini L. Biofilm formation on composite resins for dental restorations: an in situ study on the effect of chlorhexidine mouthrinses. <i>Int J Artif Organs.</i> 2012;35:792-9.
4.	Le VQ, Cochis A , Rimondini L, Pourroy G, Stanic V, Palkowski H and Carrado A. Biomimetic calcium-phosphates produced by an auto-catalytic route on stainless steel 316L and bio-inert polyolefin. <i>RSC Advances.</i> 2013;28:11255-62.
5.	Le VQ, Pourroy G, Cochis A , Rimondini L, Abdel-Fattah WJ, Mohammed HJ, Carrado A. Alternative technique for calcium phosphate coating on titanium alloy implants. <i>Biomatter.</i> 2014. doi: 10.4161/biom.28534.
6.	Rimondini L, Della Valle C, Cochis A , Azzimonti B, Chiesa R. The biofilm formation onto implants and prosthetic materials may be contrasted by Gallium (3 ⁺). <i>Key Eng Mater.</i> 2014;587:315-320.
7.	Ferraris S, Venturello A, Miola M, Cochis A , Rimondini L, Spriano S. Antibacterial and bioactive nanostructured titanium surfaces for bone integration. <i>Appl Surf Sci.</i> 2014;311:279-91.
8.	Vernè E, Ferraris S, Vitale-Brovarone C, Cochis A , Rimondini L. Bioactive glass functionalized with alkaline phosphatase stimulates bone extracellular matrix deposition and calcification in vitro. <i>Appl Surf Sci.</i> 2014;313:372-81.
9.	Cochis A , Azzimonti B, Della Valle C, Chiesa R, Arciola CR and Rimondini L. Biofilm formation on titanium implants counteracted by grafting gallium and Silver ions. <i>J Biomed Mater Res A.</i> 2014;
10.	Altomare L, Guglielmo E, Varoni EM, Bertoldi S, Cochis A , Rimondini L and De Nardo L. Design of 2D chitosan scaffold via electrochemical structuring. <i>Biomatter.</i> 2014;4:doi10.4161/biom.29506.
11.	Azzimonti B, Cochis A , El Beyrouthy M, Iriti M, Uberti F, Sorrentino R, Landini MM, Rimondini L, Varoni EM. Essential Oil from Berries of Lebanese Juniperus excelsa M. Bieb Displays Similar Antibacterial Activity to Chlorhexidine but Higher Cytocompatibility with Human Oral Primary Cells. <i>Molecules</i> , 2015; 20:9344-9357.
12.	Vernè E, Bruno M, Miola M, Maina G, Bianco C, Cochis A , Rimondini L. Composite bone cements loaded with a bioactive and ferromagnetic glass-ceramic: Leaching, bioactivity and cytocompatibility. <i>Mater Sci Eng C.</i> 2015;53:95-103.
13.	Altomare L, Cochis A , Carletta A, Rimondini L, Farè S. Thermo-responsive methylcellulose hydrogels as temporary substrate for cell sheet biofabrication. <i>J Mater Sci Mater Med.</i> 2016; 27:95
14.	Cochis A , Azzimonti B, Della Valle C, De Giglio E, Bloise N, Visai L, Cometa S, Rimondini L, Chiesa R. The effect of silver or gallium doped titanium against the multidrug resistant <i>Acinetobacter baumannii</i> . <i>Biomaterials.</i> 2016;80:80-95.
15.	Cochis A , Azzimonti B, Sorrentino R, Della Valle C, De Giglio E, Bloise N, Visai L, Bruni G, Cometa S, Pezzoli D, Candiani G, Rimondini L, and Chiesa R. Data in support of Gallium (Ga ³⁺) antibacterial activities to counteract <i>E. coli</i> and <i>S. epidermidis</i> biofilm formation onto pro-osteointegrative titanium surfaces. <i>Data in Brief.</i> 2016;6:758-62.
16.	Varoni EM, Altomare L, Cochis A , Ghalayani Esfahani A, Cigada A, Rimondini L, De Nardo L. Hierarchic micro-patterned porous scaffolds via electrochemical replica-deposition enhance neo-vascularization. <i>Biomed Mater.</i> 2016;11:025018.
17.	Uberti F, Morsanuto V, Lattuada D, Colciaghi B, Cochis A , Bulfoni A, Colombo P, Bolis G, Molinari C. Protective effects of vitamin D3 on fibrial cells exposed to catalytic iron damage. <i>J Ovarian Res.</i> 2016;9:34.
18.	Catalano E, Miola M, Ferraris S, Novak S, Oltolina F, Cochis A , Prat M, Vernè E, Rimondini L, Follenzi A. Magnetite and silica-coated magnetite nanoparticles are highly biocompatible on endothelial cells in vitro. 2016. Submitted to <i>Biomed Mater.</i>
19.	Miola M, Laviano F, Gerbaldo R, Bruno M, Lombardi A, Cochis A , Rimondini L, Vernè E. Composite bone cements for hyperthermia: modeling and characterization of magnetic, calorimetric and in vitro heating properties. 2016. Submitted to <i>Ceramics Intern.</i>
20.	Ferraris S, Miola M, Cochis A , Azzimonti B, Rimondini L, Prenesti E, Vernè E. in situ reduction of antibacterial silver ions to metallic

silver nanoparticles on bioactive glasses functionalized with polyphenols. 2016 . Submitted to Applied Surf Sci.
<p>21. Chandra Veerla S, Spriano S, Cochis A, Uberti F, Rimondini L, Bertone E, Vitale A, Scolaro C, Ferrari G, Gautier G, Ferraris S. How do surface features (wettability, zeta potential and hydroxylation degree) affect the biological response of biomaterials? 2016. Submitted to J Mater Chem B.</p>
<p>22. Cochis A, Grad S, Stoddart MJ, Farè S, Altomare L, Azzimonti B, Alini M and Rimondini L. Bioreactor mechanically guided 3D mesenchymal stem cells chondrogenesis using a biocompatible novel thermo-reversible methylcellulose-based hydrogel. 2016. Submitted to Nat Sci Rep.</p>
<p>23. Ferrarsi S, Truffa Giachet F, Miola M, Bertone E, Varesino A, Vineis C, Cochis A, Sorrentino R, Rimondini L, Spriano S. Stimuli to gingival cells on titanium surfaces through contact guidance mechanism and antibacterial keratin nanofibres. 2016. Submitted to Biomed Mater</p>
<p>24. Liguori A, Cochis A, Stancampiano A, Laurita R, Azzimonti B, Sorrentino R, Varoni E, Petri M, Colombo V, Gherardi M and Rimondini L. Cold atmospheric plasma treatment affects early bacterial adhesion and decontamination of soft relinse palatal obturators. 2016. Submitted to Clin Plasma Med.</p>
<p>25. Melli V, Varoni E, Canciani E, Cochis A, Altomare L, Grenier S, Candiani G, Lefebvre LP, Rimondini L, De Nardo L. In vivo performance of a glass-ceramic scaffold produced by powder-metallurgy-inspired technology. 2016. Submitted to Biomaterials.</p>
<p>26. Varoni EM, Vijayakumar S, Canciani E, Cochis A, De Nardo L, Rimondini L, Cerruti M. Multi-tissue engineering for periodontal regenerative therapy: a chitosan-based trilayer scaffold. 2016. Submitted to J Dent Res.</p>
<p>Reviews</p>
<p>1. Catalano E, Cochis A, Varoni E, Rimondini L and Azzimonti B. Tissue-engineered artificial skin models: an overview. J Artif Organs. 2013;4:397-403.</p>
<p>2. Catalano E, Cochis A, Varoni E, Rimondini L, Carrassi A and Azzimonti B. Adipose derived adult stem cells: available technologies for potential clinical regenerative applications in dentistry. Crit Rev Biomed Eng. 2014. DOI: 10.1615/CritRevBiomedEng.2014010683.</p>
<p>3. Battistella E, Varoni E, Cochis A, Palazzo B and Rimondini L. Degradable polymers may improve dental practice. J Appl Biomater Biomech. 2011;9:223-231.</p>
<p>Book Chapters</p>
<p>1. Cochis A and Rimondini L. Adipose stem cells technologies for tissue regeneration in dentistry. Chapter 20, Adipose Stem Cells and regenerative Medicine, Elsevier Ed.</p>
<p>2. Rimondini L, Cochis A, Varoni EM, Azzimonti B, Carrassi A. Biofilm formation onto implants and prosthetics materials. Springer Ed, in press.</p>
<p>3. Cochis A, Miola M, Brechtan O, Rimondini L, Vernè E. Magnetic bioactive glass-ceramics for bone healing and hyperthermic treatment of solid tumors. In Advanced Magnetic Materials, Advanced Materials Book, Springer Ed, 2016 (Accepted)</p>
<p>Patent</p>
<p>"Superfici di titanio modificate mediante topografia alla nanoscala e rivestimento nano strutturato a base di cheratina, destinate al colletto di impianti dentali". Co-inventors: Doct. Sara Ferraris and Silvia Spriano from Politecnico di Torino, Doct. Alessio Varesano, Claudia Vineis, Vincenzo Guarino, Luigi Ambrosio of CNR Napoli and Prof. Lia Rimondini from Università del Piemonte Orientale.</p>

Novara, 31-01-2017

Andrea Cochis

