

MARTA TUNESI

CONTACT

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PROFILE

EDUCATION

2011: Ph.D. in Materials Engineering, Faculty of Engineering, Politecnico di Milano (Italy); Title: Engineered hydrogel constructs for drug delivery and cell housing in central nervous system applications; Supervisor: C. Giordano, Co-Supervisor: A. Cigada

2006: Master degree in Biomedical Engineering, Faculty of Engineering, Politecnico di Milano (Italy); In vitro analysis of different surface treatments on osseointegrated titanium dental implants; Supervisor: R. Chiesa, Co-Supervisors: C. Giordano, F. M. Montevercchi

CURRENT POSITION

2016-today: Assistant Professor in Bioengineering, Faculty of Engineering, Politecnico di Milano (Italy)

PREVIOUS POSITIONS

2011-2016: Post-doctoral fellow, Faculty of Engineering, Politecnico di Milano (Italy)

2012-2014: Visiting researcher at The Protein Factory Research Center and University of Insubria, Varese (Italy)

2011: Visiting researcher at Instituto de Engenharia Biomédica-INEB, Porto (Portugal) (1 month)

2009-2015: Visiting researcher at IRCCS Istituto di Ricerche Farmacologiche "Mario Negri", Milan (Italy)

2009-2012: Visiting researcher at Institute of Composites and Biomedical Materials-IMCB (now Institute of Polymers, Composites and Biomaterials-IPCB), National Research Council of Italy-CNR, Naples (Italy)

2009: Visiting Ph.D. Student at Mc Govern Institute for Brain Research, Massachusetts Institute of Technology-MIT, Cambridge, MA (USA) (6 months)

MEMBERSHIP IN SCIENTIFIC BODIES/JURIES

2009-today: Member of the Italian Society for Biomaterials

TEACHING ACTIVITIES

2016: Lecturer, "Mechanobiology", Ph.D. in Bioengineering, Faculty of Engineering, Politecnico di Milano (Italy)

2016: Teaching assistant and Tutor, "Chemical Bioengineering Project", Faculty of Engineering, Politecnico di Milano (Italy)

2009-2017: Teaching assistant and Tutor, "Laboratory of Biocompatibility and Cell Culture", Faculty of Engineering, Politecnico di Milano (Italy)

INVOLVEMENT IN RESEARCH PROJECTS

2016-today: MINERVA-Microbiota-Gut-Brain EngineerRed platform to evaluate intestinal microflora impact on brain functionality-ERC Consolidator Grant 2016 (Role: Team member)

2015-2016: NICHOLD-Mechanobiology of nuclear import of transcription factors modelled within a bioengineered stem cell niche-ERC Consolidator Grant 2014 (Role: Team member)

2012-2015: NANOBRAIN-Nanostructured hydrogels for controlled release of engineered therapeutic proteins against Parkinson's disease-related neurodegeneration-Cariplo Foundation, (Italy) (Role: Team member)

2012: MANTELLO-Materials and packaging for thermal maintenance to energy saving in logistic and fresh product transportation-Lombardy Region (Italy) (Role: Team member)

2011-2012: Development of additional features for Made in Italy products-Lombardy Region (Italy)
(Role: Team member)

2008: Mesenchymal stem cells cultured on modified titanium substrates for the development of implantable prosthetic devices for orthopaedic surgery-Lombardy Region (Italy) (Role: Team member)

FELLOWSHIPS AND AWARDS

2010: Scholarship for the admission to the training school “Scuola di Ingegneria Proteica” (28 June-02 July, Varese, Italy)

2009: Roberto Rocca Fellowship to join the Bizzi Lab at Mc Govern Institute for Brain Research, Massachusetts Institute of Technology-MIT, Cambridge, MA (USA)

2008-2010: Three-year scholarship for Ph.D. in Materials Engineering

2008: Best oral presentation at 15th CIRMIB Biomaterials School NoE Expert Issues School (07-11 July, Ischia, Italy)

GRANTED PATENTS

1. Inventors: Daniele F, Giordano C, Masi M, Perale G, Rossi F, Tunesi M

Applicant: Politecnico di Milano

US patent n° 8,586,086 entitled “Hydrogel capable of containing and conveying cells”