



UNIVERSITE
PARIS DESCARTES

Les Sciences de l'Homme et de la Santé

Gabriele PITINGOLO

Gabriele Pitingolo

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32 years old, Italy

PhD in Materials Engineering

RESUME

Biomedical Researcher, Ph.D. in Materials and Structures Engineering at "University Federico II of Napoli". Pharmaceutical Biotechnologist with significant project management skills and highly multidisciplinary knowledge with a strong background in pharmaceuticals, engineering, biology and chemistry. Recently I developed new biomaterials and delivery systems for drugs, biological response modifiers, biotech products and cosmetics. Management responsible and/or investigator of different research projects while dealing with people from different sectors: engineers, doctors, biologists and corporate investors.

KEYWORDS: drug delivery, nanomedicine, regenerative medicine, lab-on-a-chip, microfluidics and biomedical devices.

RESEARCH EXPERIENCE

November 2016- to date

Post-doctoral Researcher, Université Paris Descartes- (Paris, France)

May 2013- October 2016

Research Fellow, Center for Advanced Biomaterials for Healthcare IIT - Istituto Italiano di Tecnologia (Napoli, Italia)

January 2012- April 2013

Postgraduate research, Center of Biotechnology- Cardarelli Hospital (Napoli, Italia)

May 2011- January 2012

Postgraduate research, Laboratory of Biomaterials & Bioencapsulation. University of Ferrara (Ferrara, Italia)

EDUCATION

University Federico II of Napoli

PhD in Materials and Structures Engineering-Department of Material and Production Engineering. Thesis entitled: "Engineered microfluidic platforms for microenvironment control and cell culture"

University of Perugia

Master degree in Pharmaceutical Biotechnology with experimental thesis entitled: "Composite multifunctional biomaterials: Design, preparation and characterization"

SKILLS

Microfluidics, PDMS, Mesenchymal Stem Cell, Microfabrication, Micromachining, Microfluidic Engineering, Microengineering, Cleanroom Processing, Soft Lithography, Cell culture, Microfluidic Chip Development and Manufacturing, Thin Film Deposition

JOURNAL PUBLICATIONS

Gabriele Pitingolo, Raffaele Vecchione, Andrea P. Falanga, Daniela Guarnieri, Paolo Antonio Netti: *Fabrication of a modular hybrid chip to mimic endothelial-lined microvessels in flow conditions*. Journal of Micromechanics and Microengineering 02/2017; 27(3)., DOI:10.1088/1361-6439/aa5a79

Andrea P. Falanga, Gabriele Pitingolo, Maurizio Celentano, Armando Cosentino, Pietro Melone, Raffaele Vecchione, Daniela Guarnieri, Paolo A. Netti: *Shuttle-mediated nanoparticle transport across an in vitro brain endothelium under flow conditions*. Biotechnology and Bioengineering 11/2016;., DOI:10.1002/bit.26221

Raffaele Vecchione, Gabriele Pitingolo, Daniela Guarnieri, Andrea P. Falanga, Paolo A. Netti: *From square to circular polymeric microchannels by spin coating technology: A low cost platform for endothelial cell culture*. Biofabrication 05/2016; 8(2)., DOI:10.1088/1758-5090/8/2/025005

Raffaele Vecchione, Gabriele Pitingolo, Andrea Patrizia Falanga, Daniela Guarnieri, Paolo Antonio Netti: *Confined Gelatin Dehydration as a Viable Route to Go beyond Micromilling Resolution and Miniaturize Biological Assays*. ACS Applied Materials & Interfaces 05/2016; 8(19)., DOI:10.1021/acsami.6b04128

CONFERENCE PROCEEDINGS

Gabriele Pitingolo, Raffaele Vecchione, Daniela Guarnieri, Andrea P. Falanga, Paolo A. Netti: *Low cost microfluidic platforms for microenvironment control and cell culture*. 1st YOUNG SCIENTIST WORKSHOP on "Stem cell niche: from basic science to clinical application"; 05/2016

Gabriele Pitingolo: *Advanced biomaterials: focus on new materials for trauma technology*. INTERNATIONAL CONFERENCE Civil Military Cooperation in Trauma and Combat Trauma System Education and Training, Nunziatella military school; 09/2013

G Pitingolo, S Mazzitelli, C Nastruzzi, L Penolazzi, R Piva: *Microfluidic controlled assembly of nanocontainers as delivery systems for osteogenic differentiating agents*. BioNanoMed 2013; 03/2013

G Pitingolo, S Mazzitelli, C Nastruzzi, L Penolazzi, R Piva: *Alginate based microdevices for the encapsulation of stem cells*. BioNanoMed 2013, Krems (Austria); 03/2013

TECHNICAL REPORTS

Gabriele Pitingolo and Valerie Taly: *A novel low cost method to prepare a cross-linked gelatin membrane for potential*

biological applications. DOI: 10.13140/RG.2.2.34087.96162

Gabriele Pitingolo, Raffaele Vecchione, Paolo Antonio Netti: *Use of gelatin as intermediate thin passivating layer in PDMS soft lithography technology*. DOI:10.13140/RG.2.1.3604.4884

Gabriele Pitingolo, Raffaele Vecchione, Paolo Antonio Netti: *A simple and low cost method to fabricate NOA microfluidic chips*. DOI:10.13140/RG.2.1.4763.2087

Gabriele Pitingolo, Enza Torino, Raffaele Vecchione: *An easy and fast System for bonding UPCHURCH® NanoPorts to PMMA*. DOI:10.13140/RG.2.1.2555.9128

Web links:

<https://www.linkedin.com/in/gabrielepitingolo>

https://www.researchgate.net/profile/Gabriele_Pitingolo