

## **Gabriele PITINGOLO**

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### **Gabriele Pitingolo**

Gabriele.pitingolo<at>parisdescartes.fr

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](https://www.researchgate.net/profile/Gabriele_Pitingolo)