

PERSONAL INFORMATION

Name: Raffaele Vecchione

ORCID: <https://orcid.org/0000-0002-8831-7891>

Scopus ID: 24778868100

Date of birth: 1st October 1976

Nationality: Italian

EDUCATION

- 2013 PhD in Materials and Structural Engineering
Department of Chemical, Materials and Production Engineering, University of Naples “Federico II”, Italy, May 2013. Thesis title “Biodegradable Nanocapsules produced via Layer-by-Layer Technique on Oil based Templates”. Supervisor: Prof. Paolo Antonio Netti
- 2001 Master Degree in Materials Engineering: 110/110 summa cum laude.
Department of Materials Engineering and Production, University of Naples “Federico II”, Italy, Jan 2001.

CURRENT POSITION(S)

- 2018 – Chief Technician (Manager level)
Istituto Italiano di Tecnologia, CABHC@CRIB Naples, Italy.

PREVIOUS POSITIONS

- 2014 – 2017 Technologist (Manager level)
Istituto Italiano di Tecnologia, CABHC@CRIB Naples, Italy.
- 2013 – 2014 Post Doc
Istituto Italiano di Tecnologia, CABHC@CRIB Naples, Italy.
- 2010 – 2013 PhD Position
- 2009 – 2010 Senior R&D Process Engineer (VII level) in the field of *wet cleaning and etching*
STmicroelectronics Agrate, Italy
- 2007 – 2009 Senior R&D Process Engineer in the field of *printed electronics*
STmicroelectronics Naples, Italy.
- 2006 – 2007 Senior R&D Process Engineer in the field of *Probe Storage*
IBM Zurich, Switzerland.
- 2002 – 2006 R&D Process Engineer in the field of *polymer materials*
STmicroelectronics Naples, Italy
- 2001 – 2002 R&D Process Engineer in the field of *protective polymer coating*
Laminazione Sottile S.p.a., Caserta (IT).

FELLOWSHIPS AND AWARDS

- 1997 – 2000 EDISU Scholarship while attending the University
University of Naples “Federico II”, Italy

TEACHING ACTIVITIES

- 2012 – I gave seminars on polymer micro nano-processing for “Polymer technologies” Course.
University of Naples “Federico II”, Italy

INSTITUTIONAL RESPONSIBILITIES

- 2017 – 2018 Member of a Committee for the PhD program
University of Naples “Federico II”, Italy

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2012 – **10** Postdocs (Concetta Di Natale, Valentina Onesto, Martina Profeta, Fabrizio Pennacchio, Valeria Criscuolo, Jong Noh, Maurizio Celentano, Hojjat Madadi, Eliana Esposito, Anshuman Jackhmola)
Istituto Italiano di Tecnologia, CABHC@CRIB Naples, Italy.
- 2011 – **13** PhD (Immacolata Tufano, Rezvan Jamaledin, Cinzia Sgambato, Alberta De Capua, Chiara Di Cicco, Mario Battisti, Fabrizio Pennacchio, Teresa Fotticchia, Gabriele Pitingolo, Flavia Ruggiero, Vincenzo Calcagno, Renato De Alteriis, Eliana Esposito)
University of Naples “Federico II”, Italy
- 2010 – **20** Master Students (Alessandro Attanasio, Michele Vitale, Martina Pedrazzoli, Elena La Greca, Laura Matino, Tiziana Salzano, Giusi Liberatore Ilardi, Monica Patrone, Vittoria Berardinone, Annalisa Marseglia, Mario Battisti, Antonio Scognamiglio, Enrica Tuccillo, Marilena De Simone, Paola Formisano, Sabrina Federico, Renato De Alteris, Eliana Esposito, Ugo Ciotola, Angela Sagliano)
University of Naples “Federico II”, Italy

AD HOC REVIEWER

- 2014 – ACS Applied Biomaterials, ACS Nano, Advanced Materials, Analytical Methods, Applied Material and Interfaces, Applied Sciences, Biomedical Microdevices, Colloids and Surfaces A and B, Functional Biomaterials, International Journal of molecular sciences, International Journal of Nanomedicine, International Journal of Pharmaceutics, Journal of Pharmacy and Pharmacology, Journal of Polymer Engineering, Langmuir, MDPI (Pharmaceutics, Polymers, Bioengineering), Advanced Healthcare Materials, Nanoscale, Plos One, Scientific Report, Sensors and Actuators B Chemical, Small.

MAJOR COLLABORATIONS

Prof. Vincenzo Iaffaioli and Prof. Nicola Maurea, for in vitro and in vivo analysis, Fondazione Istituto Pascale, Italy.
Prof. P. Marzola for in vivo tests of drug delivery nanocarriers, University of Verona, Italy.
Prof. C. Giancola, for NC assembly analysis by calorimetry, Pharmacy University, Italy.
Prof. P. De Berardinis, for vaccine delivery from microcarriers, CNR-IBP, Italy.

PUBLICATOINS

I have published **38 papers** of which 32 from 2014 in high impact journals in fields of Chemistry, Material Science, Biology and Medicine. I have **9 articles as 1st author**, and **20 articles as corresponding author** - all cited more than 350 times (**h-index 10**). **Four** of them have been selected as **cover page** of journals such as Small, Advanced Healthcare Materials, ACS Nano and Journal of Micromechanics and Microengineering. I am a named inventor on 10 patent applications, of which 4 have been granted.

CONFERENCE PARTICIPATION

Invited Keynote Speaker, 2nd International Conference on Medicinal Chemistry and Drug Design, Barcelona August 2019.
Speaker, the 5th EOS Topical Meeting on Optical Microsystems, Capri September 2013.
Speaker, NanotechItaly2015: Cross-Cutting KETs for Responsible Innovation, Bologna September 2015.
Speaker, Minisymposium on: Cancer Drug Discovery, Development and Delivery Mechanisms and Targets in Tumor and Stromal Cells, Naples 2017.

PRIZES/AWARDS

Scientific prize: Best Keynote speaker at the 2nd International Conference on Medicinal Chemistry and Drug Design, Barcelona August 2019.
Technology transfer prizes: Among the winners of the competition Start Cup Campania 2016 with a project on biodegradable polymer microneedles. Finalist at the competition Start Cup Campania 2017 with a project on nanoemulsion-based food supplements.

Current grants

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of the PI</i>	<i>Relation to current ERC proposal¹</i>
H2O	PRIN (Research Project of National Interest)	37,000.00	February 2017-February 2020	Partner	NA
REMIAM	POR (Regional Operative Program)	100,000.00	March 2019-June 2020	Partner	NA
FIDIA	Private	279,600.00	October 2018-December 2019	Team Leader	NA

On-going and submitted grant applications (Please indicate "None" when applicable):

<i>Project Title</i>	<i>Funding source</i>	<i>Amount (Euros)</i>	<i>Period</i>	<i>Role of the PI</i>	<i>Relation to current ERC proposal²</i>
LivingGel	FET-OPEN	403,600.00	4-year grant	Partner	NA

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