Qualifica: Associate Professor

Data di nascita: 28/01/1969

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Curriculum vitae:

Associate Professor at Dipartimento di Chimica, Materiali e Ingegneria Chimica, Politecnico di Milano (SSD 09-G2, ING/IND-34) (since 2017). Previously permanent researcher (since 2008) and research activity (since 1998) at the same Ateneum. Visiting researcher at University of Strathclyde (UK), Department of Pure and Applied Chemistry (1997), University of Glasgow (UK), Centre for Cell Engineering (1998).

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STUDIES: Master degree in Organic Chemistry (1993) Università degli Studi di Milano (Italy). Master Phy. in Science and Technology of Materials (1995) Università degli Studi di Milano (Italy). PhD in Materials for Engineering and Biomaterials (1998), Politecnico di Milano.

RECENT RESEARCH ACTIVITY: soft materials, mainly produced using natural materials, for in vitro models, tissue regeneration, and drug delivery. Mucus permability and nanoparticles for drug release. Antibacterial surfaces.

Participation at different research activities national and international, funded after peer review on Project Calls, including CARIPLO projects, CARITRO projects, PRIN. Strong track on funded industrial oriented projects (Eurocoating, LivaNova, Advaita) which resulted in patents.

Tutor of three PhD and of > 50 Bachelor and Master thesis at Politecnico di Milano. Professor of different courses related to Biomaterials for Biomedical Engineering at Politecnico di Milano.

TECHNOLOGY TRANSFER AND INNOVATION:

Winner of The Innovation in Bioengineering Award - National Congress of Bioengineering 2018 with: "Bac3Gel: a Universal 3D Matrix for Bacterial Culture" Paola Petrini, Daniela P. Pacheco, Natalia Suarez Vargas, Sonja Visentin, Livia Visai, Federico Bertoglio. This project has been also awarded the Switch2Product – Innovation Challenge to transfer the developed technology to the market (2018).

Altran Foundation For Innovation Award 2012 “Bioingegneria e staminali: idee per la vita”, Senior researcher, the winner team composed by Fabiola Munarin (team leader) and Paola Petrini from Politecnico di Milano; Nora Blase and Livia Visai from Università degli Studi di Pavia.

1 patent pending on 3D-environment for bacterial growth (2018)

2 families of patents, the first on active surfaces (“Method For Making Antibacterial And Antiviral The Surfaces Of Metal Products Intended For Medical Uses”, 2007) and 3D-environment for cell encapsulation (“Composite material comprising pectin and calcium phosphate and method for its realisation”, 2010).