

PERSONAL INFORMATION **Giovanna Della Porta**✉ gdellaporta@unisa.it🌐 <http://docenti.unisa.it/giovanna.dellaporta>

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WORK EXPERIENCE

From 2019 **Associate Professor**

of Pharmaceutical Technology and Drug Delivery at the Department of Medicine, Surgery and Dentistry (DIPMED), University of Salerno, Via S. Allende Baronissi (SA) Italy (www.unisa.it)



- **Head of the *Translational & Nanomedicine Medicine Lab*** focused on drug delivery for tissue engineering and regenerative medicine research; the Lab is a multidisciplinary environment and has actually 4 Senior Post-doc Researchers and 3 PhD students in Translational Medicine and/or Drug delivery and Nanomedicine. PhD were funded by Industrial doctorate programs (PON-RI 2014/2020; action I.1—"Innovative PhDs with industrial characterization"). Other personnel are Master degree students in biology and bioengineering; the different background of lab personnel (chemistry, biotechnology, biology and engineering) is merged with those of resident medical doctors to generate a young and energetic research environment that is particularly productive and attractive.

- **Coordinator at UNISA & Working Package Leader of H2020-MSCA-ITN-2020 Project** (acronym P4FIT; Grant Agreement number: 955685) funded in 2020 within Horizon 2020. Among the same project, she is also Tutor responsible of two PhDs double degree with a co-tutelle agreements between the University of Salerno and the University of Finland and the Keele University (UK). Those PhD students will spend 12 months at *Translational Medicine Lab-UNISA* starting from September 2022.

Years 2016-2018 **Senior Lecturer**

of Pharmaceutical Technology and Drug Delivery at the Department of Medicine, Surgery and Dentistry (DIPMED), University of Salerno

Years 2002-2015 **Senior Researcher & Lecturer**

at Dept. of Industrial Engineering (DiIN), University of Salerno, Italy. Here, she joined the pharmaceutical and chemical innovative processes research group and her research activity have been focused on drug micronization to increase the bioavailability and on the development of injectable micro/nano carriers to obtain innovative sustained drug release formulations by using dense gases technologies.

EDUCATION AND TRAINING

Research Fellowship

At Fischell Dept. of Bioengineering of the University of Maryland, (College Park, MD-USA) in a project of growth factors sustained delivery for the osteogenic commitment of human stem cells entitled: "Effect of bioactive scaffold and dynamic bioreactor flow on human Mesenchymal Stem Cells osteogenic differentiation". Supervisor Prof. John Fisher (see also <http://tebl.umd.edu>). She was responsible of the development of the biopolymer nano-carriers formulation for biomolecules delivery within the 3D microenvironment for cell culture.

PhD in Bioengineering

At Department of Electrical, Electronic, and Information Engineering "Guglielmo Marconi" University of Bologna, Italy. Tutor Prof. Angelo Cappello.

Master Degree in Industrial Biotechnology

At University of Naples, Italy.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	English (fluency, TOEFEL); Spanish (A2).
Job-related skills	In the years 2009-2011 she has been Aggregate Professor to the Master in Green Chemistry at the GHATERS, Topic. Supercritical fluid technologies for Green Chemistry, University of Zaragoza, Spain. She is Member of Editorial Board of Journal Supercritical Fluid (Elsevier) and Pharmaceutics (MDPI). She is honorary member of International Society for Advancement of Supercritical Fluids. She is Controlled Release Society and TERMIS Associated Member. She is DIPMED representative in the Interdepartmental Center BIONAM (https://bionam.unisa.it/).
H-Index and Citation	She has published 125 articles in international journals on drug delivery system formulation, nanomedicine; she has an H-Index of 42 with 4769 citations (scopus index) .
Patents	PATENTS: PCT/IT 2008/00504. US Patent US/8628802 B2 Jan 2014; IT 102023000015003 (18/07/2023).

Recent Selected papers

Ciardulli M.C., Mariconda A., Sirignano M., (...), **Della Porta G.***, Longo P., Activity and Selectivity Novel Chemical Metallic Complexes with Potential Anticancer Effects on Melanoma Cells, **Molecules** **2023**, vol. 28 (12), art. no. 4851.

Scala P., Manzo P., Longo R., (...), **Della Porta G.***, Contribution of peripheral blood mononuclear cells isolated by advanced filtration system to myogenesis of human bone marrow mesenchymal stem cells co-cultured with myoblasts, **Heliyon**, **2023**, vol. 9 (6), art. no. e17141.

Scala P., Manzo P., Lamparelli E.P., (...), **Della Porta G.***, Peripheral blood mononuclear cells contribute to myogenesis in a 3D bioengineered system of bone marrow mesenchymal stem cells and myoblasts, **Frontiers in Bioengineering And Biotechnology**, **2023**, vol. 10, art. no. 1075715.

Manzo P., Scala P., Giudice V., (...), **Della Porta G.***, Selleri C., c-Kit M541L variant is related to ineffective hemopoiesis predisposing to clonal evolution in 3D in vitro biomimetic co-culture model of bone marrow niche. **Heliyon**, **2022**, vol. 8, p. 11998.

Lamparelli, E.P., Ciardulli, M.C., Scala, P., (...), **Della Porta, G.***, Lipid nano-vesicles for thyroid hormone encapsulation: A comparison between different fabrication technologies, drug loading, and in vivo delivery to human tendon stem/progenitor cells in 2D and 3D culture, **International Journal of Pharmaceutics**, **2022**, 624, 122007.

Lamparelli, E.P.; Casagrande, V.; Pressato, D.; (...), **Della Porta, G.***, Bellini, D., Synthesis and Characterization of a Novel Composite Scaffold Based on Hyaluronic Acid and Equine Type I Collagen, **Pharmaceutics**, **2022**, 14, 1752.

Scala P., Lovecchio J., Lamparelli E.P., (...), **Della Porta G.***, Myogenic commitment of human stem cells by myoblasts Co-culture: a static vs. a dynamic approach, **Artificial Cells, Nanomedicine, and Biotechnology**, **2022**, 50 (1), Pages 49 – 58.

Ciardulli M.C., Scala P., Giudice V., (...), **Della Porta G.***, Stem Cells from Healthy and Tendinopathic Human Tendons: Morphology, Collagen and Cytokines Expression and Their Response to T3 Thyroid Hormone, **Cells**, **2022**, 16;11(16):2545.

Ciardulli M.C., Lovecchio J., Scala P., (...), **Della Porta G.***, 3D biomimetic scaffold for growth factor controlled delivery: An in-vitro study of tenogenic events on Wharton's jelly mesenchymal stem cells, **Pharmaceutics**, **2021**, 13 (9):1448.

Palazzo, I., Lamparelli, E.P., Ciardulli, M.C., (...), **Della Porta, G.***, Supercritical emulsion extracted fabricated PLA/PLGA micro/nano carriers for growth factor delivery: Release profiles and cytotoxicity, **International Journal of Pharmaceutics**, **2021**, 592, 120108.

Lamparelli E.L., Lovecchio J., Ciardulli M.C., (...), **Della Porta G.***, Chondrogenic Commitment of Human Bone Marrow Mesenchymal Stem Cells in a Perfused Collagen Hydrogel Seeded with hTGF- β 1 Releasing PLGA Microcarrier, **Pharmaceutics**, **2021**, 13(3), 399.

Ciardulli, M.C., Lovecchio J., Scala P., (...), **Della Porta G.***, 3D biomimetic scaffold for growth factor controlled delivery: an in-vitro study of tenogenic events on Wharton's Jelly Mesenchymal Stem Cells, **Pharmaceutics**, **2021**, 13(9), 1448.

Govoni, M., Lamparelli, E.P., Ciardulli, M.C., (...), **Della Porta, G.***, Dallari, D., Demineralized bone marrow paste formulated with biomimetic PLGA microcarriers for the vancomycin hydrochloride controlled delivery: Release profile, cytotoxicity and efficacy against *S. aureus*, **International Journal of Pharmaceutics**, **2020**, 582, 119322.

Ciardulli, M.C., Marino, L., Lovecchio, J., (...), **Della Porta, G.***, Tendon and Cytokine Marker Expression by Human Bone Marrow Mesenchymal Stem Cells in a Hyaluronate/Poly-Lactic-Co-Glycolic Acid (PLGA)/Fibrin Three-Dimensional (3D) Scaffold, **Cells**, **2020**, 9(5).

Ciaglia, E., Montella, F., Trucillo, P., (...), **Della Porta, G.***, A bioavailability study on microbeads and nanoliposomes fabricated by dense carbon dioxide technologies using human primary monocytes: a flow cytometry assay, **International Journal of Pharmaceutics**, **2019**, 570, 118686.

