



Maria Rosa Gigliobianco

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ESPERIENZA LAVORATIVA

Postdoctoral Researcher, Senior Scientist

Percuros BV [01/09/2021 – 31/01/2023]

Città: Leiden

Paese: Paesi Bassi

Marie Skłodowska-Curie Individual European Fellowship

Congedo per maternità

Università degli Studi di Camerino [2020 – 2021]

Assegnista di Ricerca

Università degli Studi di Camerino-Scuola di Scienze del Farmaco e dei Prodotti della Salute [2020 – 2021]

Rinnovo contratto

Assegnista di Ricerca

Università degli Studi di Camerino- Scuola del Farmaco [2019 – 2020]

Borsista

Università degli Studi di Camerino- Scuola del Farmaco [2018 – 2019]

Visiting researcher

LUMC- Leiden University medical center [2016 – 2017]

Città: Leiden

Paese: Paesi Bassi

ISTRUZIONE E FORMAZIONE

Dottorato di Ricerca in Chemical and Pharmaceutical Science and Biotechnology

Università degli Studi Di Camerino [2014 – 2018]

Tesi: Titolo: SYNTHESIS AND CHARACTERIZATION OF NEW TARGETED POLYMERIC NANOPARTICLES FOR BIOMEDICAL APPLICATION

Drug delivery, nanoparticles formulation and characterizations, DLS, NMR, Gel Permeation Chromatography-GPC, HPLC, X-ray Powder Diffractometer, Differential Scanning Calorimeter-DSC, TGA, FTIR, UV spectroscopy, SEM.HPLC, in vitro studies.

Cultore della materia

Università degli Studi Di Camerino [2016 – 2021]

Area 03/D2, SSD Chim/09 per i seguenti insegnamenti:

- Produzione industriale dei medicinali (8CFU)
- Pharmaceutical Technical method (4CFU)
- Biotech drugs delivery (4CFU)

Laurea Specialistica in CHIMICA E TECNOLOGIA FARMACEUTICHE (14/S - Classe delle lauree specialistiche in farmacia e farmacia industriale)

Università degli Studi Di Camerino- Scuola di Scienze del Farmaco e dei Prodotti della Salute [2011 – 2014]

Abilitazione all'esercizio della professione di farmacista

Università degli Studi di Camerino [2014]

Laurea Specialistica in FARMACIA (14/S - Classe delle lauree specialistiche in farmacia e farmacia industriale)

Università degli Studi Di Camerino - Scuola di Scienze del Farmaco e dei Prodotti della Salute [2006 – 2011]

COMPETENZE LINGUISTICHE

Lingua madre: **italiano**

Altre lingue:

inglese

ASCOLTO B2 LETTURA B2 SCRITTURA B2

PRODUZIONE ORALE B2 INTERAZIONE ORALE B2

PUBBLICAZIONI

1.

Evaluation of (arene) Ru (II) complexes of curcumin as inhibitors of dipeptidyl peptidase IV. A. Antonyan, A. De, L.A. Vitali, R. Pettinari, F. Marchetti, M.R. Gigliobianco, C. Pettinari, E. Camaioni, G. Biochimie, 2014, 99(1):146-152.

2.

New nanometric solid dispersions of Glibenclamide in eusilin R UFL2. R. Censi, M.R. Gigliobianco, A. Dubbini, L. Malaj, P. Di Martino. AAPS PharmSciTech , 2015, 1-9

3.

Effect of poly(vinylpyrrolidone) or sodium alginate on the stability of the amorphous form of Nimesulide.

Journal of Thermal Analysis and Calorimetry. R. Censi, M.R. Gigliobianco, L. Malaj, P. Di Martino. 2016, 123(3): 2415-2425..

4.

Formation, physicochemical characterisation, and thermodynamic stability of the amorphous state of drugs and excipients, Current Pharmaceutical Design. P. Di Martino, F. Magnoni, D.V. Peregrina, M.R., Gigliobianco, R. Censi , L. Malaj. 2016, 22, 1-16.

5.

Nano-medicine improving the bioavailability of small molecules for the prevention of neurodegenerative diseases. P. Di Martino, R. Censi, A. Dubbini, D. Agas, M.R. Gigliobianco, W. Quaglia. Current Pharmaceutical Design, 2017, 23 (13): 1897-1908(12).

6.

Effect of grinding on the solid-state stability and particle dissolution of acyclovir polymorphs. Journal of Pharmaceutical Sciences. F. Magnoni, M.R. Gigliobianco, D. Vargas Peregrina, R. Censi, P. Di Martino. 2017, 106(10):3084-3094.

7.

Hot Melt extrusion: highlighting factors to be investigated while designing and optimising a hot melt extrusion process. R. Censi, M.R. Gigliobianco, C. Casadidio, P. Di Martino. Pharmaceutics. 2018, 10:89-116.

8.

Changes in the solid state of nicergoline, a poorly soluble drug, under different grinding and environmental conditions: effect on polymorphism and dissolution. R. Censi, M.R. Gigliobianco, C. Casadidio, P. Di Martino. *Journal of Pharmaceutical Sciences*, 2019, 108(2): 929-948.

9.

Nanocrystals of poorly soluble drugs: bioavailability and physicochemical stability. M.R., Gigliobianco, C. Casadidio, R. Censi, P. Di Martino; *Pharmaceutics* 2018, 10:134.

10.

New Advanced Strategies for the treatment of Lysosomal Storage Disorders Affecting the Central Nervous System. M.R., Gigliobianco, S. Deng, C. Casadidio, R. Censi, P. Di Martino. *Current Pharmaceutical Design*. 2019, 25(17):1933-1950.

11.

Quantification of phenolic compounds in different types of craft beers, worts, starting and spent ingredients by liquid chromatography-tandem mass spectrometry. M.Cortese, M.R. Gigliobianco, D.V. Peregrina, G. Sagratini, R.Censi, P. Di Martino, *Journal of Chromatography A*, 2020, 1612:460622.

12.

Chitin and Chitosans: Characteristics, Eco-Friendly Processes, and Applications in Cosmetic Science. Mar. Drugs, C. Casadidio, D.V. Peregrina, M.R. Gigliobianco, Siyuan Deng, Roberta Censi and Piera Di Martino; 2019, 17, 369; doi: 10.3390/md17060369.

13.

Interpenetrating Hydrogel Networks Enhance Mechanical Stability, Rheological Properties, Release Behavior and Adhesiveness of Platelet-Rich Plasma. R. Censi, C. Casadidio, S. Deng, M.R. Gigliobianco, M.G. Sabbieti, D. Agas, F. Laus, P. Di Martino, *Int. J. Mol. Sci.* 2020, 21:1399;

14.

Optimization of the extraction from spent coffee grounds using the desirability approach. M.R. Gigliobianco, B. Campisi, D.V. Peregrina, R.Censi, G. Khamitova, S. Angeloni, G. Caprioli, M. Zanotti, S. Ferraro, R. Giovannetti, C. Angeloni, G. Lupidi, L. Petruccoli, A. Tarozzi, D. Voinovich, P. Di Martino, *Antioxidants* 2020, 9(5):E370.

15.

Optimization of curcumin nanocrystals as promising strategy for nose-to-brain delivery application. A. Bonaccorso, M.R. Gigliobianco, R. Pellitteri, D. Santonocito, C. Carbone, P. Di Martino, G. Puglisi, T. Musumeci; *Pharmaceutics*. 2020, 12(5):476.

16.

Polymeric nanocapsules as a nanotechnological alternative for drug delivery system: current status, challenges and opportunities. S Deng, M.R. Gigliobianco, R.Censi, P. Di Martino, *Nanomaterials* 2020, 10(5):E847.

17.

Compensate for or Minimize Matrix Effects? Strategies for Overcoming Matrix Effects in Liquid Chromatography-Mass Spectrometry Technique: A Tutorial Review. M.Cortese, M.R. Gigliobianco, F. Magnoni, R. Censi, P. Di Martino. *Molecules* 2020, 25(13):3047

18.

Development of new extracts of crocus sativus L. By-product from two different Italian regions as new potential active ingredient in cosmetic formulations. Gigliobianco, M.R., Cortese, M., Peregrina, D.V., Villa, C., Lupidi, G., Pruccoli, L., Angeloni, C., Tarozzi, A., Censi, R., Di Martino, P. *Cosmetics*, (2021) 8 (2).

19.

New antioxidant ingredients from brewery by-products for cosmetic formulations. Censi, R., Peregrina, D.V., Gigliobianco, M.R., Lupidi, G., Angeloni, C., Pruccoli, L., Tarozzi, A., Di Martino, P. *Cosmetics*, (2021) 8 (4).

20.

Dually cross-linked core-shell structure nanohydrogel with redox-responsive degradability for intracellular delivery. Deng, S., Gigliobianco, M.R., Mijiti, Y., Minicucci, M., Cortese, M., Campisi, B., Voinovich, D., Battistelli, M., Salucci, S., Gobbi, P., Lupidi, G., Zambito, G., Mezzanotte, L., Censi, R., Di Martino, P. *Pharmaceutics*, (2021) 13 (12).

21.

Nanotechnology as a Versatile Tool for ¹⁹F-MRI Agent's Formulation: A Glimpse into the Use of Perfluorinated and Fluorinated Compounds in Nanoparticles. Joseph, J.M., Gigliobianco, M.R., Firouzabadi, B.M., Censi, R., Di Martino, P.; *Pharmaceutics*, (2022) 14 (2).

22.

Chemical, Antioxidant, and Antimicrobial Properties of the Peel and Male Flower By-Products of Four Varieties of *Punica granatum* L. Cultivated in the Marche Region for Their Use in Cosmetic Products. Gigliobianco, M.R., Cortese, M., Nannini, S., Di Nicolantonio, L., Peregrina, D.V., Lupidi, G., Vitali, L.A., Bocchietto, E., Di Martino, P., Censi, R.; *Antioxidants* (2022), 11 (4).

23.

PLGA Nanoparticles Grafted with Hyaluronic Acid to Improve Site-Specificity and Drug Dose Delivery in Osteoarthritis Nanotherapy; Zerrillo, L., Gigliobianco, M.R., D'atri, D., Garcia, J.P., Baldazzi, F., Ridwan, Y., Fuentes, G., Chan, A., Creemers, L.B., Censi, R., Martino, P.D., Cruz, L.J.; *Nanomaterials*, (2022) 12 (13).

24.

Impact of the Interactions between Fragrances and Cosmetic Bases on the Fragrance Olfactory Performance: A Tentative to Correlate SPME-GC/MS Analysis with That of an Experienced Perfumer. Di Nicolantonio, L., Gigliobianco, M.R., Peregrina, D.V., Angeloni, S., Ilorini, L., Di Martino, P., Censi, R.; *Cosmetics*, (2022) 9 (4).

25.

Design of Nanoparticles in Cancer Therapy Based on Tumor Microenvironment Properties. Mahdavi Firouzabadi, B., Gigliobianco, M.R., Joseph, J.M., Censi, R., Di Martino, P.; *Pharmaceutics*, (2022)14 (12).

CONFERENZE E SEMINARI

Training activities for MSCA-ITN-2020 project NOVA-MRI

[online session, 12/12/2022]

Oral_Active targeting strategies for nanoparticle drug delivery systems.

Oral

[Roma, 19/09/2023]

NanoInnovation 2022

Protein interaction with biocompatible and biodegradable novel nanohydrogels

[Rotterdam, The Netherlands, 28/03/2022]

PBP World Meeting 2022

Synthesis and preparation of novel nanoparticles of PLGA functionalised with hyaluronic acid: potential application in osteoarthritis,

[Camerino, 13/06/2019]

13th A.It.U.N. Annual Meeting New Challenges in Selfassembling drug delivery Systems.

Synthesis and preparation of novel nanoparticles of PLGA functionalised with hyaluronic acid: potential application in osteoarthritis

[Bologna, 25/03/2019]

3rdEuropean Conference on Pharmaceutics

New adenosine functionalised PLGA-PEG nanoparticles for brain targeting

[Rende (CS), 06/06/2018]

National Congress of Biomaterial (SIB)

Synthesis and in vitro release studies of new adenosine functionalised PLGAPEG nanoparticles for brain targeting.

[Antibes-Juan-les-Pins, France, 25/09/2016]

4th Congress on Innovation in Drug Delivery, Site-Specific Drug Delivery

Biodistribution studies of nanoparticles for targeting into the central nervous system

[Antibes-Juan-les-Pins, Franc., 25/09/2016]

4th Congress on Innovation in Drug Delivery, Site-Specific Drug Delivery

Synthesis of a new biodegradable co-polymer of PLGA-PEG-N-Ado for the preparation of nanoparticles suitable for advanced drug delivery systems for the central nervous system

[University of Calabria, Italy, 05/09/2016 – 08/09/2016]

XVI Summer School "Farmaci biotech: dall'idea alla pratica clinica"

Functionalised biodegradable nanoparticles for brain targeting

[Portonovo (AN), 03/06/2015]

National Congress of Biomaterial (SIB)

ONORIFICENZE E RICONOSCIMENTI

MSCA-Individual European Fellowship H2020

[2021]

Best poster presentation

CRS Italy chapter annual workshop Steering the Clinical Translation of Delivery Systems for Drugs [2019]

Best poster presentation

Best poster presentation [2015]

Best master thesis in pharmaceutical chemistry and technology

CONCORSO DONNA e SCIENZA, Rita Levi Montalcini Bitonto [2015]

PhD fellowship

School of Advance Studies, University of Camerino

M.Sc. fellowship due to excellent results

School of Pharmacy, University di Camerino

COMPETENZE DIGITALI

Padronanza del Pacchetto Office (Word Excel PowerPoint ecc) / Gestione autonoma della posta e-mail / software professionali specifici

COMPETENZE COMUNICATIVE E INTERPERSONALI

Ottime abilità comunicative. Buona capacità di produrre report scientifici e di presentare risultati scientifici. Orientamento al risultato.

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".