

CURRICULUM VITAE ET STUDIORUM



CHRISTIAN CELIA PharmD, PhD, Hospital Pharmacy Specialist and Scientist

Christian Celia PharmD, PhD, Specialization in Hospital Pharmacy.

Associate Professor, University of Chieti-Pescara “G. d’Annunzio”, S.S.D. CHIM/09 – Applied Pharmaceutical Technology.

Academic Training

1999 – 2004, M.Sc. in Pharmacy, University of Catanzaro “Magna Græcia”: “Preparation and characterization of gemcitabine-loaded liposomes and *in vitro* evaluation of its anticancer activity”, mentor: Prof. Massimo Fresta (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

2006 – 2007, Research Fellowship Progetto D4 “Agevolazione finanziaria per la mobilità verso imprese, università, centri e istituti di ricerca del Friuli Venezia Giulia di ricercatori residenti nel Sud Italia e di ricercatori residenti in Regione, attualmente impiegati all’estero” pubblicato in data 7 Novembre 2005 sul Supplemento Ordinario (S.O.) N°26 del B.U.R. Friuli-Venezia Giulia, Italy 2005. Funds: 22,500,000 €

2004 – 2008, Pharm.D. and Specialization School in Hospital Pharmacy, University of Catanzaro “Magna Græcia”: “The therapeutic laboratory: Innovation and development of Hospital Pharmacy between past and future”, mentors: Prof. Massimo Fresta (S.S.D. CHIM/09 – Applied Pharmaceutical Technology) and Dr. Carlo Capolupo (Specialist in Hospital Pharmacy at the Soveria Mannelli Hospital)

2006 – 2007, Research Fellow, University of Palermo, Pharmaceutical Technology and Advanced Drug Delivery (S.S.D. CHIM/09 – Applied Pharmaceutical Technology): “Poly-aminoacids and poly-saccharides polymeric systems for the modified release and targeting of drugs”. Funds: 18,060,000 €

2008 – 2008, Research fellowship, “Programma Integrato di Voucher e Borse per l’Alta Formazione POR CALABRIA 2000 – 2006 Misura 3.7” dal Titolo Biotecnologie nella Ricerca Oncologica, Catanzaro, Italy. Funds: 7,747,000 €

2008 – 2012, Ph.D. in Pharmaceutical Science, University of Catanzaro “Magna Græcia”: “Supramolecular vesicular aggregates: innovative drug delivery systems for anticancer therapy”, mentor: Prof. Donatella Paolino (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

Professional Appointments

2004 – 2005, Tutor assistant, in Applied Pharmaceutical Technology, School of Pharmacy, University of Catanzaro “Magna Graecia”, Italy.

2006 – 2007, Tutor assistant, in Analytical Chemistry, School of Pharmacy, University of Catanzaro “Magna Graecia”, Italy.

2008 – 2009, Tutor assistant, in Applied Pharmaceutical Technology, School of Pharmacy, University of Catanzaro “Magna Graecia”, Italy.

2006 – 2011, Contract Professor in Pharmaceutical Technology and Advanced Drug Delivery (S.S.D. CHIM/09 – Applied Pharmaceutical Technology), University of Catanzaro “Magna Graecia”, Italy.

2010 – 2010, Invited lecture, Gemcitabine-loaded chitosan microspheres for lung cancer treatment. CRS Italy Local Chapter, Rome, November 25-27, 2010, Italy.

2012 – 2017, Assistant Professor, Pharmacy Department, Faculty of Pharmacy, University of Chieti-Pescara “G. d’Annunzio”, S.S.D. CHIM/09 – Applied Pharmaceutical Technology, Chieti, Italy.

2012 – 2012 Affiliated Scientist with the Methodist Hospital Research Institute (THRI), Department of Nanomedicine, Houston, TX, USA

2013 – 2020, Member of committee board for Ph.D. program in Molecular and Cellular Biotechnology, University of Teramo.

2014 – 2014, Invited lecture, Nanocarriers for brain inflammation: an overview of conventional and innovative approaches. XIV Corso Permanente di Aggiornamento per I Dottorandi del Settore Tecnologico Farmaceutico. Strategie per il Rilascio ed il Direzioneamento di Farmaci al SNC. 22 – 26 Settembre 2014, Arcavacata di Rende (CS), Italia.

2014 – 2014, Invited lecture, Nanocarriers in Food Sciences: Application and Future Perspectives. Mini-Workshop Nanosystems & Health Sciences. 1st July 2014, Germaneto – Catanzaro (CZ), Italy.

2014 – 2014, Invited lecture, Liposomal Bergamot oil and neuroblastoma. Phyt’Arom Grasse. Congres International d’Aromatherapie et Plantes Medicinales. 11-13 Avril 2014, Grasse, France.

2015 – 2015, Member of Committee board for Ph.D. Defense in Pharmaceutical, AA 2011/2012, University of Catanzaro “Magna Graecia”, Catanzaro, Italy.

2015 – 2015, Research contract for international mobility teaching program Erasmus+/KA1, University of Chieti – Pescara, Italy and University of Helsinki, Finland.

2015 – 2015, Invited – teaching classes and visiting at University of Helsinki, Finland, Program Erasmus+/KA1 Istruzione Superiore.

2015 – 2015, Co-chair and president of committee organization board of Mini-Workshop “Rational Design of Polymeric Nanoconstructs for Drug Delivery and Imaging”, University of Chieti – Pescara, “G. d’Annunzio”, Chieti, Italy.

2015 – 2015, Invited lecture, “Fascination of Plants Day” University of Chieti – Pescara, “G. d’Annunzio”, 18 May 2015, Chieti, Italy.

2015 – 2015, Invited lecture, “I Edition Nanoitaly”, University of Rome “Sapienza” 21 September 2015, Rome, Italy

2016 – 2016, Favorite reviewer for the Ph.D. thesis “Multi-Approach Design and Fabrication of Hybrid Composites for Drug Delivery and Cancer Therapy” of Barbara Herranz Blanco, Ph.D. candidate, University of Helsinki, Helsinki, Finland.

2016 – 2016, Invited lecture, Supramolecular Cancer Therapeutics for Anticancer Drug Delivery. Dipartimento di Scienze Chimiche e Farmaceutiche, 9 Marzo 2016, Università degli Studi di Trieste, Trieste, Italia.

2016 – 2016, Invited lecture, Nanoliposomes as Multidrug Therapy for Anticancer Treatment. 10th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology. Glasgow, United Kingdom 4 – 7 April 2016.

2016 – 2017, Mentor Master student Rasim Masimov, University of Anadolu, Turkey, Erasmus Traineeship program, Erasmus+/KA1 program Istruzione Superiore.

2016 – 2017, Componente consiglio corso Master Universitario di II Livello “Technology Transfer Farmaceutico”, Università degli Studi “G. d’Annunzio” di Chieti - Pescara, Chieti, Italia.

2017 – 2017 Research contract for international mobility teaching program Erasmus+/KA1, University of Chieti – Pescara, Italy and University of Granada, Spain.

2017 – 2017, Invited – teaching classes and visiting at University of Granada, Spain, Program Erasmus+/KA1 Istruzione Superiore.

2017 – 2017, Committee board member and co-Chairs of section “Innovative nano carriers for drug delivery”, Nanoinnovation, 26 – 29 September 2017, University of Rome “Sapienza”, Rome, Italy.

2018 – 2018 invited Lectures for the thematic topic of Nanomedicine at the Scuola Normale Superiore di Pisa, Pisa, Italy.

2019 – 2019, Invited lecture at University of Helsinki, Helsinki, Finland, Course of NANOMEDICINES FOR BIOMEDICAL APPLICATIONS.

2020 – current, Member of committee board for Ph.D. program in Environmental and Health Science, University of Aquila.

2020 – 2021, Tutor Master Student Merve Alkan, Hacettepe University, Faculty of Pharmacy, Turkey, Erasmus Traineeship program, Programma Erasmus+/KA1 Istruzione Superiore.

2020 – 2021, Tutor Master Student Ismail Cimen, Erzincan Binali Yıldırım University, Turkey, Erasmus Traineeship program, Programma Erasmus+/KA1 Istruzione Superiore.

2017 – current, Associate Professor, Pharmacy Department, Faculty of Pharmacy, University of Chieti-Pescara “G. d’Annunzio”, S.S.D. CHIM/09 – Applied Pharmaceutical Technology, Chieti, Italy.

2020, Co-chair and president of committee organization board of 1st International Northern – Southern Europe Workshop in Nanomedicine, January 15 – 17, 2020, Chieti, Italia.

2020 – 2020, Favorite reviewer for the Ph.D. thesis “Pharmaceutical applications of mesoporous aluminosilicates: studies of fibrous clay minerals (sepiolite and palygorskite) in spring water hydrogels.” of FÁTIMA GARCÍA VILLÉN, Ph.D. candidate, University of Granada, Granada, Spain.

2021 – 2021, Invited lecture at University of Helsinki, Helsinki, Finland, Course of NANOMEDICINES FOR BIOMEDICAL APPLICATIONS.

2021 – 2021, Member of Committee evaluation board for Ph.D. programme in Scienze Molecolari e Biomolecolari XXXVII Ciclo, AA 2021/2022, University of Palermo, Palermo, Italy.

2021 – 2021, Member of Committee evaluation board for Ph.D. programme in Scienze della Salute e dell’Ambiente XXXVII Ciclo, integrated fellowships PON 2014-2020 sulle tematiche dell’Innovazione e del Green, AA 2021/2022, University of L’Aquila, L’Aquila, Italy.

2021 – 2021, Invited lecture, Therapeutic Nanoparticles in Anticancer Therapy. Nanomedicine and Therapeutics Materials Virtual Symposium. Section 2, August 19, 2021.

2021 – 2021, Invited lecture, Nanosistemi convenzionali ed innovativi per la veicolazione degli olii essenziali. Virtual Meeting “Modalità di incapsulamento e di delivery degli oli essenziali: attualità e prospettive”, S.I.R.O.E. (Società Italiana per la Ricerca sugli Oli Essenziali), 22 Ottobre 2021, Rome, Italy.

2022 – current, Scientific board member of Research Center Health and Innovation (Hal@UMG) at the University of Catanzaro “Magna Graecia”, Catanzaro, Italy.

Academic Positions:

2017 – current, Coordinator of the Department Academic board for student tutorship integrative fellowship.

2017 – current, Member of Department Academic Board for student internship.

2019 – current, Member of University Research Committee board.

2020 – 2023, Member of University Department board.

2021 – current, Erasmus Delegate Department of Pharmacy for University of Knaus (Lithuanian) and Tartu (Estonia).

Personal Skills and Expertise

Main research fields: design, preparation, physicochemical characterization and *in vitro* and *in vivo* evaluation of Supramolecular Nanotherapeutics for local and systemic delivery of bioactive compounds.

Specific skills and technologies: physicochemical characterization of Supramolecular Nanotherapeutics using dynamic light scattering analysis, turbidimetric analysis, diffraction analysis; chromatography (high performance liquid chromatography, HPLC), UV-Vis spectrometry, fluorometer spectrometry; design and evaluation of pharmacokinetic protocols and analysis of biological samples; bio-distribution and biopharmaceutical evaluation of bioactive compounds through *in vitro* and *in vivo* models.

Scientific Activity: Scientific activity was carried out in the Department of Pharmaco-biological Science and Health Science of the University of Catanzaro, in the Chemical and Pharmaceutical Technology Department of the University of Palermo, in the Nanomedicine Department of The Methodist Hospital Research Institute. After official professional appointment in the Academic Staffs of University of Chieti-Pescara “G. d’Annunzio”, Dr Christian Celia carries out his research activity in Pharmacy Department of the same University. Moreover, he continues his collaborations as Affiliated Scientist with Nanomedicine Department of The Methodist Hospital Research Institute, Houston, USA, where he is co-mentor of different scientific projects aimed the delivery of chemotherapeutics and genetic materials loaded Supramolecular Nanotherapeutics using *in vitro* and *in vivo* models.

Main research fields

The research activity of Dr. Christian Celia is based on three main research fields:

1 Design, synthesis, and physicochemical characterization of liposomes. Liposomes are synthesized to deliver synthetic and natural bioactive compounds, particularly chemotherapeutic drugs. Chemotherapeutic drugs – loaded liposomes were tested both *in vitro* and *in vivo* using cancer cells, and animal models engrafted by tumor cells. The anticancer activity of liposomal chemotherapeutics was compared to native drugs. The pharmacokinetic and biodistribution of chemotherapeutic drugs – loaded liposomes were further investigated. Liposomal chemotherapeutics were further used to treat solid and blood tumors. Conventional and modified PEGylated liposomes loading chemotherapeutics were synthesized to improve their biopharmaceutical features, and therapeutic activity of anticancer drugs. Targeting agents were further conjugated to the surface of liposomal chemotherapeutics and the presence of targeting agents allows accumulating liposomal chemotherapeutic in specific pathological tissues. Recently, liposomal chemotherapeutics were further included in titanium capsules to obtain implantable devices capable to provide a metronomic release of chemotherapeutic liposomes. Liposomal chemotherapeutics were also combined to hyperthermia to treat pancreatic cancer. The combination of physical hyperthermia and therapeutic liposomes increased both *in vitro* and *in vivo* the anticancer activity of formulations, decreased the tumor mass and volume and increased the survival of animal developing tumors.

2 Design, synthesis, and physicochemical characterization of ultradeformable liposomes and niosomes made up from phospholipids and/or natural and synthetic surfactants. Ultradeformable

liposomes and niosomes can pass intact through biological barriers, particularly skin, and deliver synthetic and natural bioactive compounds, such as anti – inflammatory, antioxidant and chemotherapeutic drugs. Physicochemical properties and long – term stability by turbidimetric analysis were performed for ultradeformable liposomes and niosomes. The therapeutic activity of these nanocarriers were tested ex vivo using intact skin and/or stratum corneum epidermis membranes, to regenerate skin tissue, to blanch hyper – pigmented skin, and to test anti – inflammatory and antioxidant activity both in vitro, and on human volunteers. Chemotherapeutic drugs loaded ultradeformable liposomes and niosomes were used to treat in vitro precancerous non – melanoma skin cells and in vitro/in vivo breast cancer cells.

3 Design, synthesis, and physicochemical characterization of supramolecular vesicular aggregates (SVAs) made from phospholipids and polymers. SVAs were synthesized self-assembling pre-formulated liposomes and biocompatible multifunctional polymers. The presence of multiple groups in the pending chains of polymers coating SVAs allows conjugating active agents and provides selective targeting versus specific receptors and tissues. SVAs were physicochemical characterized and tested both in vitro and in vivo and used to deliver chemotherapeutic compounds and markers. SVAs increased in vitro and in vivo the anticancer effect of drugs in different solid tumors. The presence of targeting agents on the surface of SVAs further increased in vitro and in vivo anticancer activity in breast cancer cells and murine animal models engrafted by breast cancer cells. A technological advancement of SVAs was the synthesis of Dendron polyethylene glycol (PEG) 5000 Da derivatives. The PEG derivatives were used to synthesize super stealth liposomes, which long circulate in the blood stream and provide stable PEG chains on the liposomal surface over 72 h, thus preventing the serum proteins – mediated detachment of PEG from the liposomal surface. Bisphosphonate molecules were also conjugated to polymers that are self – assembled in SVAs, thus synthesized supramolecular conjugates, which can target bone selectively.

Secondary research fields

Secondary research interests of Dr. Celia are the design, synthesis, and physicochemical characterization of nanoparticles for tumor and brain delivery, natural compounds and synthetic derivatives for therapeutic treatment, chemical analysis of customized drugs, and devices in biological fluids, and in vivo models.

International impact of publications and scientific research

Scopus: h-Index 37, numero totali di citazioni 3730.

Web of Science (WOS): h-Index 35, numero totali di citazioni 3097.

Google Scholar: h-Index 39, numero totali di citazioni 4543.

Publications: co-author of 98 papers, 1 proceeding paper edited in international peer-reviewed journals, and 3 Guest Editorial in international peer-reviewed journal (Current Drug Targets, IF2016: 3.236, Journal Citation Reports; Journal Rank in Categories: Pharmacology & Pharmacy Q2; and

Advanced Therapeutics). Dr Christian Celia is first author in 25 papers and corresponding* or co-corresponding** in 15 papers as following reported:

1. Paolino D. Muzzalupo R. Ricciardi A. **Celia C.** Picci N. Fresta M. *In vitro* and *in vivo* evaluation of bola-surfactant containing niosomes for transdermal delivery. *Biomedical Microdevices* 2007;9(4):421-433. ISSN: 1387-2176 (Print); ISSN: 1572-8781 (Online); DOI: 10.1007/s10544-007-9046-6. Cod. Scopus: 2-s2.0-34548597147. Cod. WOS: 000248007500001.
2. Calvagno M.G. **Celia C.** Paolino D. Cosco D. Iannone M. Castelli F. Doldo P. Fresta M. Effect of lipid composition and preparation conditions on physical-chemical properties, technological parameters and *in vitro* biological activity of gemcitabine-loaded liposomes. *Current Drug Delivery* 2007;4(1):89-101. ISSN: 1567-2018 (Print); ISSN: 1875-5704 (Online); DOI: 10.2174/156720107779314749. Cod. Scopus: 2-s2.0-33846061242.
3. **Celia C.** Calvagno M.G. Paolino D. Bulotta S. Ventura C.A. Russo D. Fresta M. Improved *in vitro* anti-tumoral activity, intracellular uptake and apoptotic induction of gemcitabine-loaded pegylated unilamellar liposomes. *Journal of Nanoscience and Nanotechnology* 2008;8(4):2102-2113. ISSN: 1533-4880 (Print); ISSN: 1533-4899 (Online); DOI: 10.1166/jnn.2008.065. Cod. Scopus: 2-s2.0-44449096844. Cod. WOS: 000262668300009.
4. **Celia C.** Malara N. Terracciano R. Cosco D. Paolino D. Fresta M. Savino R. Liposomal delivery improves the growth inhibitory and apoptotic activity of low doses of gemcitabine in multiple myeloma cancer cells. *Nanomedicine: Nanotechnology, Biology and Medicine* 2008;4(2):155-166. ISSN: 1549-9634 (Print); DOI: 10.1016/j.nano.2008.02.003. Cod. Scopus: 2-s2.0-44449119317. Cod. WOS: 000262668300009.
5. Cosco D. **Celia C.** Cilurzo F. Trapasso E. Paolino D. Colloidal carriers for the enhanced delivery through the skin. *Expert Opinion on Drug Delivery* 2008;5(7):737-755. ISSN: 1742-5247 (Print); ISSN: 1744-7593 (Online); DOI: 10.1517/17425247.5.7.737. Cod. Scopus: 2-s2.0-48449105065. Cod. WOS: 000259741400002.
6. Cosco D. Bulotta A. Ventura M. **Celia C.** Calmieri T. Perri G. Paolino D. Costa N. Neri P. Tagliaferri P. Tassone P. Fresta M. *In vivo* activity of gemcitabine-loaded pegylated small unilamellar liposomes against pancreatic cancer. *Cancer Chemotherapy and Pharmacology* 2009;64(5):1009-1020. ISSN: 0344-5704 (Print); ISSN: 1432-0843 (Online); DOI: 10.1007/s00280-009-0957-1. Cod. Scopus: 2-s2.0-69049106405. Cod. WOS: 000269076700018.
7. Trapasso E. Cosco D. **Celia C.** Fresta M. Paolino D. Retinoids: new use by innovative drug delivery systems. *Expert Opinion Drug Delivery* 2009;6(5):465-483. ISSN: 1742-5247 (Print); ISSN: 1744-

7593 (Online); DOI: 10.1517/17425240902832827. Cod. Scopus: 2-s2.0-67649133143. Cod. WOS: 000266280800002.

8. **Celia C.** Trapasso E. Cosco D. Paolino D. Fresta M. Turbiscan Lab[®] Expert analysis of the stability of ethosomes[®] and ultradeformable liposomes containing a bilayer fluidizing agent. *Colloids and Surface B: Biointerfaces* 2009;72(1):155-160. ISSN: 0927-7765; DOI: 10.1016/j.colsurfb.2009.03.007. Cod. Scopus: 2-s2.0-67349274680. Cod. WOS: 000267633800022.

9. Cosco D. Paolino D. Muzzalupo R. **Celia C.** Citrato R. Caponio D. Picci N. Fresta M. Novel PEG-coated niosomes based on bola-surfactant as drug carriers for 5-fluorouracil. *Biomedical Microdevices* 2009;11(5):1115-1125. ISSN: 1387-2176 (Print); ISSN: 1572-8781 (Online); DOI: 10.1007/s10544-009-9328-2. Cod. Scopus: 2-s2.0-67349274680. Cod. WOS: 000267633800022.

10. Tudose A. **Celia C.** Cardamone F. Vono M. Molinaro M. Paolino D. Regenerative properties of aloe vera juice on human keratinocyte cell culture. *Farmacia* 2009;57(5):590-597. ISSN: 0014-8237 (Print); ISSN: 2065-0019 (Online). Cod. Scopus: 2-s2.0-73349141122. Cod. WOS: 000271146000008.

11. **Celia C.** Cosco D. Paolino D. Fresta M. Nanoparticulate Devices for Brain Drug Delivery. *Medicinal Research Reviews* 2011; 31(5):716-756. ISSN: 0198-6325 (Print); ISSN: 1098-1128 (Online); DOI: 10.1002/med.20201. Cod. Scopus: 2-s2.0-80051977273. Cod. WOS: 000294400900002.

12. Iannone M. Cosco D. Cilurzo F. **Celia C.** Paolino D. Mollace V. Rotiroti D. Fresta M. A novel animal model to evaluate the ability of a drug delivery system to promote the passage through the BBB. *Neuroscience Letters* 2010;469(1):93-96. ISSN: 0304-3940 (Print); DOI: 10.1016/j.neulet.2009.11.051. Cod. Scopus: 2-s2.0-72749112539. Cod. WOS: 000274565500020.

13. Paolino D. Cosco D. Racanicchi L. Trapasso E. **Celia C.** Iannone M. Puxeddu E. Costante G. Filetti S. Russo D. Fresta M. Gemcitabine-loaded PEGylated unilamellar liposomes vs GEMZAR[®]: biodistribution, pharmacokinetic features and in vivo antitumor activity. *Journal of Controlled Release* 2010;144(2):144-150. ISSN: 0168-3659 (Print); DOI: 10.1016/j.jconrel.2010.02.021. Cod. Scopus: 2-s2.0-77952670492. Cod. WOS: 000278652800005.

14. Licciardi M. Paolino D. **Celia C.** Giammona G. Cavallaro G. Fresta M. Folate-targeted supramolecular vesicular aggregates based on polyaspartylhydrazide copolymers for the selective delivery of antitumoral drugs. *Biomaterials* 2010;31(28):7340-7354. ISSN: 0142-9612 (Print); DOI: 10.1016/j.biomaterials.2010.05.060. Cod. Scopus: 2-s2.0-77955279339. Cod. WOS: 000281183000014

15. Marianecchi C. Paolino D. **Celia C.** Fresta M. Carafa M. Alhaique F. Non-ionic surfactant vesicles in pulmonary glucocorticoid delivery: characterization and interaction with human lung fibroblasts. *Journal Controlled Release* 2010;147(1):127-135. ISSN: 0168-3659 (Print); DOI: 10.1016/j.jconrel.2010.06.022. Cod. Scopus: 2-s2.0-79953692747. Cod. WOS: 000282903700017.
16. Vono M. Cosco D. **Celia C.** Paolino D. Celano M. Russo D. Fresta M. *In vitro* evaluation of the activity of gemcitabine-loaded pegylated unilamellar liposomes against papillary thyroid cancer cells. *The Open Drug Delivery Journal* 2010;4(8):55-62. ISSN: 1874-1266 (Print); DOI: 10.2174/1874126601004010055. Cod. Scopus: 2-s2.0-78349253860.
17. Paolino D, Cosco D, Molinaro R, **Celia C.**, Fresta M. Supramolecular devices to improve the treatment of brain diseases. *Drug Discovery Today* 2011; 16(7-8):311-324. ISSN: 1359-6446 (Print); DOI: 10.1016/j.drudis.2011.02.006. Cod. Scopus: 2-s2.0-79953675986. Cod. WOS: 000290084100006.
18. Procopio A. **Celia C.** Nardi M. Oliverio M. Paolino D. Sindona G. Lipophilic hydroxytyrosol esters: fatty acid conjugates for potential topical administration. *Journal of Natural Products* 2011;74(11):2377-2381. ISSN: 0163-3864 (Print); ISSN: 1520-6025 (Online); DOI: 10.1021/np200405s. Cod. Scopus: 2-s2.0-82355187634. Cod. WOS: 000297274900008.
19. **Celia C.** Cosco D. Paolino D. Fresta M. Gemcitabine-loaded innovative nanocarriers vs GEMZAR[®]: biodistribution, pharmacokinetic features and in vivo antitumor activity. *Expert Opinion on Drug Delivery* 2011;8(12):1609-1629. ISSN: 1742-5247 (Print); ISSN: 1744-7593 (Online); DOI: 10.1517/17425247.2011.632630. Cod. Scopus: 2-s2.0-81855228063. Cod. WOS: 000297224500006.
20. Chessa M. Manconi M. Caddeo C. **Celia C.** Lampis S. Sinico C. Fadda A.M. Penetration enhancer containing vesicles (PEVS) for dermal delivery of lidocaine. *European Journal Pharmaceutical Science* 2011;1(1):42-43; Proceeding Paper 4th BBBB International Conference on Pharmaceutical Sciences, September 29 – October 1, 2011/Bled – Slovenia.
21. **Celia C.** Cilurzo F. Trapasso E. Cosco D. Fresta M. Paolino D. Ethosomes[®] and transfersomes[®] containing linoleic acid: physicochemical and technological features of topical drug delivery carriers for the potential treatment of melasma disorders. *Biomedical Microdevices* 2012;14(1):119-130. ISSN: 1387-2176 (Print); ISSN: 1572-8781 (Online); DOI: 10.1007/s10544-011-9590-y. Cod. Scopus: 2-s2.0-84857789742. Cod. WOS: 000300851600011.
22. Paolino D. **Celia C.** Trapasso E. Cilurzo F. Fresta M. Paclitaxel-loaded ethosomes[®]: potential treatment of squamous cell carcinoma, a malignant transformation of actinic keratoses. *European*

Journal of Pharmaceutics and Bipharmaceutics. 2012;81(1):102-112. ISSN: 0939-6411; DOI: 10.1016/j.ejpb.2012.02.008. Cod. Scopus: 2-s2.0-84861099287. Cod. WOS: 000304730700012.

23. Paolino D. Cosco D. Cilurzo F. Trapasso E. Morittu M.V. **Celia C.** Fresta M. Improved in vitro and in vivo collagen biosynthesis by asiaticoside-loaded ultradeformable vesicles. Journal of Controlled Release. 2012;162(1):143-151. ISSN: 0168-3659 (Print); DOI: 10.1016/j.jconrel.2012.05.050. Cod. Scopus: 2-s2.0-84864711867. Cod. WOS: 000307769200017.

24. Paolino D. Licciardi M. **Celia C.** Giammona G. Fresta M. Cavallaro G. Folate - targeted supramolecular vesicular aggregates as a new frontier for effective anticancer treatment in “in vivo” model. European Journal of Pharmaceutics and Biopharmaceutics. 2012;82(1):94-102. ISSN: 0939-6411; DOI: 10.1016/j.ejpb.2012.06.001. Cod. Scopus: 2-s2.0-84866035643. Cod. WOS: 000309627200011.

25. Marianecchi C. Rinaldi F. Di Marzio L. Pozzi D. Caracciolo G. Manno D. Dini L. Paolino D. **Celia C.** Carafa M. Interaction of pH-sensitive non-phospholipid liposomes with cellular mimetic membranes. Biomedical Microdevices. 2013;15(2):299-309. ISSN: 1387-2176 (Print); ISSN: 1572-8781 (Online); DOI: 10.1007/s10544-012-9731-y. Cod. Scopus: 2-s2.0-84879685455. Cod. WOS: 000316201300010.

26. Bansal S.S. **Celia C.** Ferrati S. Zabre E. Ferrari M. Palapattu G. Grattoni A. Validated RP-HPLC Method for the Simultaneous Analysis of Gemcitabine and LY-364947 in Liposomal Formulations. Current Drug Targets. 2013;14(9):1061-1069. ISSN: 1389-4501 (Print); ISSN: 1873-5592 (Online); DOI: 10.2174/13894501113149990165. Cod. Scopus: 2-s2.0-84881328726. Cod. WOS: 000321338500014.

27. Sarpietro M.G. Accolla M.L. **Celia C.** Grattoni A. Castelli F. Fresta M. Ferrari M. Paolino D. Differential Scanning Calorimetry as a Tool to Investigate the Transfer of Anticancer Drugs to Biomembrane Model. Current Drug Targets. 2013;14(9):1053-1056. ISSN: 1389-4501 (Print); ISSN: 1873-5592 (Online); DOI: 10.2174/1389450111314090013. Cod. Scopus: 2-s2.0-84881327986. Cod. WOS: 000321338500013.

28. Molinaro R. Wolfram J. Federico C. Cilurzo F. Di Marzio L. Ventura C.A. Carafa M, **Celia C.** Fresta M. Polyethylenimine and chitosan carriers for the delivery of RNA interference effectors. Expert Opinion on Drug Delivery. 2013;10(12):1653-1668. ISSN: 1742-5247 (Print); ISSN: 1744-7593 (Online); DOI: 10.1517/17425247.2013.840286. Cod. Scopus: 2-s2.0-84889017894. Cod. WOS: 000327503200006.

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6. Celia C, Cilurzo F, Cosco D, Fresta M, Paolino D, Pasut G. “Liposomal system with Killer TNF-apoptosis induced ligand (KillerTRAIL), pro-apoptotic-directing” Priorities: IT202000013042A·2020-06-01; Application: IB2021054787W·2021-06-01; Publication: WO2021245547A1·2021-12-09; Patent Cooperation Treaty Application, Published as: WO2021245547A1.

Awards:

1. Poster Prize, XIII National Meeting in Medicinal Chemistry, University of Salerno (Italy), September 6 – 9, 2015.
2. Elsevier Reviewer Recognition, Elsevier, Amsterdam, Netherlands, 2015 – current.
3. Wiley, Reviewer Certificate, Wiley, USA, 2017 – current.
4. ACS, Reviewer Certificate, American Chemical Society, USA, 2016.
5. Finanziamento delle Attività Base di Ricerca, Avviso pubblico di ANVUR n. 20/2017 del 15-06-2017.
6. Best Paper award 2021, Pharmaceutics Mathematical Modeling of Release Kinetics from Supramolecular Drug Delivery Systems by Constantin Mircioiu, Victor Voicu, Valentina Anuta, Andra Tudose, Christian Celia, Donatella Paolino, Massimo Fresta, Roxana Sandulovici, Ion Mircioiu. Pharmaceutics 2019, 11(3), 140; <https://doi.org/10.3390/pharmaceutics11030140>

Grant awards:

Bando 2016, Progetto Finalizzato, Ministero della Salute, **Project Title:** Role of miR-181a and miR-181b in B cell malignancies and development of rational approaches for their use as therapeutic agents; **Project Code:** GR-2016-02363070; **Project Type:** Young Research (under 40 years); **Role:** Co-Principal Investigator and Responsible of Research Unit 2. Funds: 443,200 € (November 2018-May 2022).

Project Leader in collaboration with Prof. Helder A. Santos, Faculty of Pharmacy, Department of Helsinki, for Research Fellowship, Dottorato di ricerca "innovativo a caratterizzazione industriale" per l'Anno Accademico 2017/2018 - Ciclo XXXIII, Italian Minister of Innovation, University and Research (MIUR), DOT13A8025, University of Teramo (<http://www.miur.gov.it/-/decreto-di-assegnazione-borse-aggiuntive-dottorato-di-ricerca-innovativo-a-caratterizzazione-industriale-per-l-anno-accademico-2017-2018-ciclo-xxxiii>). Funds: 120,000 € (June 2019-January 2022).

BioGaia AB; Research Contract, Private funds, **Project Title:** “Lactobacillus reuteri DSM 17938 Membrane Vesicles (MVs): In-Depth Characterization and Possible Applications for Human Health”, 16/04/2018; **Role:** Project leader in collaboration with Dr. Rossella Grande. Funds: 60,000 € (April 2018-April 2020).

PROJECT NUMBER: 23264; TYPE OF GRANT: Investigator Grant - IG 2019; APPLICANT: Di Carlo Emma; EXTERNAL COLLABORATOR, Christian Celia; PROJECT TITLE: Interleukin-30 targeting to overcome immunosuppression and improve immunotherapy in prostate cancer; AIRC – Associazione Italiana Ricerca sul Cancro.

Co-Investigator and Secondment partner leader and coordinator of Perspectives For Future Innovation in Tendon Repair (P4FIT) project; H2020 MSC-EJD-P4FIT 2020 (Number 955685); PI: Helder A. Santos (University of Helsinki). Funds: 4,043,040 € (January 2021-December 2024).

Project Leader in collaboration with Prof. Tabet Teesalu, Laboratory of Precision Medicine, Institute of Biomedicine and Translational Medicine, for Research Fellowship, Dottorato di ricerca "innovativo a caratterizzazione industriale", tematica Innovation, per l'Anno Accademico 2021/2022 - Ciclo XXXVII, Italian Minister of Innovation, University and Research (MIUR), University of L'Aquila. Funds: 60,000 € (January 2022 - January 2025).

Editorial Board Members:

Guest Editor "Supramolecular Systems in Nanomedicines: Therapeutic Applications and Future Perspectives, Part I e II" 2015 peer-reviewed **Current Drug Targets** (Journal Citation Reports; Journal Rank in Categories: Pharmacology & Pharmacy Q2). ISSN: 13894501 (Part I); ISSN: 13894501 (Part II).

Guest Editor Book Chapter "Analytical Chemistry: Development, Application and Challenges", Nova Science Publisher Inc., 400 Oser Avenue, Suite 1600, Hauppauge, NY, 11788 – 3619, USA. ISSN: 978-1-53612-267-1. Cod. Scopus: 2-s2.0-85034983743.

2017 – current Editorial Board Member, peer-reviewed journal **Drug Delivery Letters; Bentham Group** (ISSN: 2210-304X (Online); ISSN: 2210-3031 (Print)).

2018 – current Editorial Board Member peer-reviewed journal **Pharmaceutics; MPDI Group** (ISSN 1999-4923; CODEN: PHARK5).

2018 – current Editorial Board Member, peer-reviewed journal **Frontiers in Pharmacology**, section Pharmacology of Anti-Cancer Drugs; **Frontiers group** (ISSN: 1663-9812 (Online)).

2018 – 2020 Editorial Board Member, peer-reviewed journal **Current Drug Delivery; Bentham Group** (ISSN: 1875-5704 (Online); ISSN: 1567-2018 (Print)).

2018 – current Editorial Board Member, peer-reviewed journal **Current Nanomedicine; Bentham Group** (ISSN: 2468-1881 (Online); ISSN: 2468-1873 (Print)).

2018 – current Editorial Board Member, peer-reviewed journal **Sci; MPDI Group** (ISSN 2413-4155 (Online)).

2019 – current Editorial Board Member, peer-reviewed journal **International Journal of Molecular Sciences; MPDI Group** (ISSN 1661-6596 (Online)).

2019 – current Editorial Board Member, peer-reviewed journal **Frontiers in Bioengineering and Biotechnology**, section Nanobiotechnology; **Frontiers group** (ISSN: 2296-4185 (Online)).

2019 – current Editorial Board Member, peer-reviewed journal **Frontiers in Oncology**, section Pharmacology and Anti-cancer Drugs; **Frontiers group** (ISSN: 2234-943X (Online)).

2020 – current Editorial Board Member, peer-reviewed journal **Frontiers in Molecular Biosciences**, section Nanobiotechnology; **Frontiers group** (ISSN: 2296-889X (Online)).

2020 – current Associate Editor, peer-reviewed journal **Frontiers in Medical Technology**, **Frontiers group** (ISSN: 2673-3129 (Online)).

2020 – current Editorial Board Member, peer-reviewed journal **Analytica**, MDPI **Group** (ISSN: 2673-4532 (Online)).

2021 – current Co-Editor, peer-reviewed journal **Current Drug Delivery**; **Bentham Group** (ISSN: 1875-5704 (Online); ISSN: 1567-2018 (Print)).

2021 – current Editorial Board Member, peer-reviewed journal **International Journal of Bioprinting**; **WHIOCE group**; (ISSN: 2424-8002 (Online); ISSN: 2424-7723 (Print)).

Selected Papers

1. Paolino D. Cosco D. Racanicchi L. Trapasso E. **Celia C.** Iannone M. Puxeddu E. Costante G. Filetti S. Russo D. Fresta M. Gemcitabine-loaded PEGylated unilamellar liposomes vs GEMZAR®: biodistribution, pharmacokinetic features and in vivo antitumor activity. *Journal of Controlled Release* 2010; 144(2):144-150. DOI: 10.1016/j.jconrel.2010.02.021. Cod. Scopus: 2-s2.0-77952670492. Cod. WOS: 000278652800005. **I.F. 2020: 7.727**

2. Licciardi M. Paolino D. **Celia C.** Giammona G. Cavallaro G. Fresta M. Folate-targeted supramolecular vesicular aggregates based on polyaspartylhydrazide copolymers for the selective delivery of antitumoral drugs. *Biomaterials* 2010; 31(28):7340-7354. DOI: 10.1016/j.biomaterials.2010.05.060. Cod. Scopus: 2-s2.0-77955279339. Cod. WOS: 000281183000014. **I.F. 2020: 10.317**

3. Marianecchi C. Paolino D. **Celia C.** Fresta M. Carafa M. Alhaique F. Non-ionic surfactant vesicles in pulmonary glucocorticoid delivery: characterization and interaction with human lung fibroblasts. *Journal Controlled Release* 2010; 147(1):127-135. DOI: 10.1016/j.jconrel.2010.06.022. Cod. Scopus: 2-s2.0-79953692747. Cod. WOS: 000282903700017. **I.F. 2020: 7.727**

4. Paolino D. Cosco D. Cilurzo F. Trapasso E. Morittu M.V. **Celia C.** Fresta M. Improved in vitro and in vivo collagen biosynthesis by asiaticoside-loaded ultradeformable vesicles. *Journal of Controlled Release*. 2012; 162(1):143-151. DOI: 10.1016/j.jconrel.2012.05.050. Cod. Scopus: 2-s2.0-84864711867. Cod. WOS: 000307769200017. **I.F. 2020: 7.727**

5. Paolino D. Cosco D. Gaspari M. Celano M. Wolfram J. Voce P. Puxeddu E. Filetti S. Celia C. Ferrari M. Russo D. Fresta M. Targeting the thyroid gland with thyroid-stimulating hormone (TSH)-nanoliposomes. *Biomaterials*. 2014;35(25):7101-7109. DOI: 10.1016/j.biomaterials.2014.04.088. Cod. Scopus: 2-s2.0-84902074236. Cod. WOS: 000338386800041. **I.F. 2020: 10.317**

6. Celia C. Ferrati S. Bansal S. van de Ven A.L. Ruozi B. Zabre E. Hosali S. Paolino D. Sarpietro M.G. Fine D. Fresta M. Ferrari M. Grattoni A. Sustained Zero-Order Release of Intact Ultra-Stable Drug-Loaded Liposomes from an Implantable Nanochannel Delivery System. *Advanced Healthcare*

Materials. 2014;3(2):230-238. DOI: 10.1002/adhm.201300188. Cod. Scopus: 2-s2.0-84893460880. Cod. WOS: 000331949000009. **I.F. 2020: 7.367**

7. Pasut G. Paolino D. Celia C. Mero A. Joseph A.S. Wolfram J. Cosco D. Schiavon O. Shen H. Fresta M. Polyethylene glycol (PEG)-dendron phospholipids as innovative constructs for the preparation of super stealth liposomes for anticancer therapy. *Journal of Controlled Release*. 2015;199:106-113. DOI: 10.1016/j.jconrel.2014.12.008. Cod. Scopus: 2-s2.0-84919608239. Cod. WOS: 000348456800012. **I.F. 2020: 7.727**

8. Kirui D.K. **Celia C.** Molinaro R. Bansal S.S. Cosco D. Fresta M. Shen H. Ferrari M. Mild hyperthermia enhances transport of liposomal gemcitabine and improves in vivo therapeutic response. *Advanced Healthcare Materials*. 2015;4(7):1092-1103. DOI: 10.1002/adhm.201400738. Cod. Scopus: 2-s2.0-84929519770. Cod. WOS: 000354481100016. **I.F. 2020: 7.367**

9. Di Francesco M. Primavera R. Romanelli D. Palomba R. Pereira R.C. Catelani T. **Celia C.** Di Marzio L. Fresta M. Di Mascolo D. Decuzzi P. Hierarchical Microplates as Drug Depots with Controlled Geometry, Rigidity, and Therapeutic Efficacy. *ACS Applied Materials & Interfaces*. 2018;21;10(11):9280-9289. DOI: 10.1021/acsami.7b19136. Cod. Scopus: 2-s2.0-85044212099. **I.F. 2020: 9.229**

10. Pannuzzo M. Esposito S. Wu L.P. Key J. Aryal S. **Celia C.** Di Marzio L. Moghimi S.M. Decuzzi P. Overcoming Nanoparticle-Mediated Complement Activation by Surface PEG-Pairing. *Nano Letters*. 2020;20(6):4312-4321. DOI: 10.1021/acs.nanolett.0c01011. Cod. Scopus: 2-s2.0-85081606697. Cod. WOS:000541691200033. **I.F. 2020: 11.189**

Academic training (S.S.D. CHIM/09 – Applied Pharmaceutical Technology):

Invited Lecture “Preparati Dermici e Transdermici: aspetti teorici e pratici” - 4° Corso Scuola Dottorale per la Formazione Avanzata in Discipline Tecnologico-Farmaceutiche, 11-17 Settembre 2004 Arcavacata di Rende (CS), Italia (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

Invited Lecture “Tecnologie Innovative per la Veicolazione di Farmaci” - 5° Corso Scuola Dottorale per la Formazione avanzata in Discipline Tecnologico-Farmaceutiche, 10-16 Settembre 2005, Arcavacata di Rende (CS), Italia (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

Invited Lecture “Tecnologia ed Applicazioni nello Sviluppo di Prodotti di Origine Vegetale” - 7^a Corso Scuola Dottorale per la Formazione Avanzata In Discipline Tecnologico Farmaceutiche. 8-14 Settembre 2007, Arcavacata di Rende (CS), Italia (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

Invited Lecture “Sistemi Vescicolari: Recent Advances in vesicle drug carriers” – 8° Corso Scuola Dottorale la Formazione avanzata in Discipline Tecnologico-Farmaceutiche, 22-27 Settembre 2008, Arcavacata di Rende (CS), Italia (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

Invited Lecture “Sistemi Nanoparticellari” – 9° Corso Scuola Dottorale per la Formazione Avanzata In Discipline Tecnologico Farmaceutiche. 7-9 Settembre 2009, Cagliari (CA), Italia (S.S.D. CHIM/09 – Applied Pharmaceutical Technology).

2004 – 2005, Research contract – Tutor – Corso di Laurea Specialistica in Farmacia, Facoltà di Farmacia, Università degli Studi “Magna Græcia” di Catanzaro, nella disciplina di Tecnologia, Socio-economia e Legislazione Farmaceutiche (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO).

2006 – 2007, Research contract – Tutor – Corso di Laurea Specialistica in Farmacia, Facoltà di Farmacia, Università degli Studi “Magna Græcia” di Catanzaro, nella disciplina di Scienze Chimiche di Base (S.S.D. CHIM/01 – CHIMICA ANALITICA).

2008 – 2009, Research contract – Tutor – Corso di Laurea Specialistica in Farmacia, Facoltà di Farmacia, Università degli Studi “Magna Græcia” di Catanzaro, nella disciplina di Tecnologia, Socio-economia e Legislazione Farmaceutiche (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO).

2006 – 2011, Contract Professor Attività Didattica Integrativa per l’insegnamento di Farmaceutico Tecnologico Applicativo (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) presso il Corso di Laurea Specialistica in Farmacia, Facoltà di Farmacia, Università degli Studi “Magna Græcia” di Catanzaro Italia.

2012 – 2013, Appoitment Lectures for Classes of Impianti dell’Industria Farmaceutica (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Specialistica in Chimica e Tecnologia Farmaceutiche presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2013 – 2014, Appoitment Lectures for Classes of Produzione Industriale dei Medicinali (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Magistrale in Chimica e Tecnologia Farmaceutiche presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2014 – 2015, Appoitment Lectures for Classes of Produzione Industriale dei Medicinali (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Magistrale in Chimica e Tecnologia Farmaceutiche presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2014 – 2015, Appointment Lectures for Classes of Tecnologia Farmaceutica con Laboratorio (canale A – G) (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Magistrale in Farmacia, presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2015 – 2016, Appoitment Lectures for Classes of Tecnologia Farmaceutica con Laboratorio (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Magistrale in Farmacia, presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2016 – 2017, Appoitment Lectures for Classes of Tecnologia Farmaceutica con Laboratorio (canale A – G) (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di

Laurea Magistrale in Farmacia, presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2016 – 2017, Appoitment Lectures for Classes of Metodologie di Sviluppo Galenico (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Specialistica in Chimica e Tecnologia Farmaceutiche, presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2017 – 2018, Appoitment Lectures for Classes of Tecnologia Farmaceutica con Laboratorio (canale A – G) (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Magistrale in Farmacia, presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2017 – 2018, Appoitment Lectures for Classes of Metodologie di Sviluppo Galenico (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Specialistica in Chimica e Tecnologia Farmaceutiche, presso il Dipartimento di Farmacia, Università degli Studi “G. d’Annunzio” di Chieti – Pescara, Italia.

2012 – current Supervisor of 10 Tesi Compilative di Laurea (Master Thesis) (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Specialistica e/o Magistrale in Farmacia, 20 Tesi Sperimentali (Master Thesis) di Laurea (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Specialistica e/o Magistrale in Farmacia e 19 Tesi Sperimentali di Laurea (S.S.D. CHIM/09 – FARMACEUTICO TECNOLOGICO APPLICATIVO) per il Corso di Laurea Specialistica e/o Magistrale in Chimica e Tecnologia Farmaceutiche.

2013 – 2020 Member of the committee board PhD program in Cellular and Molecular Biotechnology, University of Teramo, Teramo, Italy.

2020 – current Member of the committee board PhD program in Environmental and Life Science, University of L’Aquila, L’Aquila, Italy.

2015 – 2015 Research contract per la Mobilità di Attività Didattica nell’Ambito del Programma Erasmus+/KA1 Istruzione Superiore. Accordo N. 2014/2015-17, University of Chieti – Pescara “G. d’Annunzio”, Italy and University of Helsinki, Finland.

2015 – 2015 Lectures at the University of Helsinki, Finland, Programma Erasmus+/KA1 Istruzione Superiore.

2016 – Preliminary examiner’s statement of Ph.D. candidate Barbara Herranz Blanco, University of Helsinki, Finland, Title of Thesis “Multi-Approach Desigh and Fabrication of Hybrid Composites for Drug Delivery and Cancer Therapy.

2017 – 2017 Research contract per la Mobilità di Attività Didattica nell’Ambito del Programma Erasmus+/KA1 Istruzione Superiore. Accordo N. 2016, University of Chieti – Pescara “G. d’Annunzio”, Italy and University of Granada, Spain.

2018 – 2018 Lectures for the thematic topic of Nanomedicine at the Scuola Normale Superiore di Pisa, Pisa, Italy.

Membership of Professional Organization

Associate Member: CRS (Controlled Release Society).

Associate Member: CRS Italian Local Chapter (Controlled Release Society Italian Local Chapter).

Associate Member: ADRITELF (Italian Association of Professor in Pharmaceutical Technology and Advanced Drug Delivery).

Associate Member: Pharmacist Order of Catanzaro, Italy.

Academic Member: CRS Focus group of Nanomedicine and Nanoscale delivery.

Secretary Chair: CRS Focus group of Nanomedicine and Nanoscale delivery.

DECLARATION AUTHENTICITY OF PROVIDED PAPERS AND DOCUMENTS

CHRISTIAN CELIA, [REDACTED]

[REDACTED]

DECLARES

under his responsibility, according to articles **46 e 47** of **DPR 445/2000** of Italian law and conscious of criminal penalties for fake statements according to article **76** from the same Italian law, as well as conscious of article **75** paragraph **1** of the same **DPR**, that all information reported and declared in this paper about academic and scientific activities are true.

CHIETI, 22/04/2022

