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EDUCATION

2011 - Graduated in Pharmaceutical Chemistry and Technology, University of Pavia, discussing a thesis on "Anti-aging properties of silk sericin extracts from different strains of *Bombyx mori*".
2011 - Qualified Pharmacist.
2015 - PhD in Pharmaceutical Chemistry and Technology, University of Pavia, discussing a thesis on "Encapsulation technologies applied to seminal material of different zootechnical species".
2015 - Cultore della materia, Disciplinary sector CHIM/09, Pavia University.

PROFESSIONAL EXPERIENCES

2022 - Current - Senior Researcher (RTDB - art. 24 c.3-a L.240/10)
2019 - Current - Teaching to EMJMD Nanomed (European Master Joint Master Degree Nanomedicine for Drug Delivery), University of Paris (France), Pavia (Italy), Patras (Greece), Angers (France)
2018 - 2022 - Junior Researcher (RTDA - art. 24 c.3-a L.240/10)
2015 - 2018 - Post-doctoral position, Drug Sciences Dept., University of Pavia
2011 - 2016 - Teaching assistant for the courses *Analytical chemistry* (AYs 2011-2017) and *Pharmaceutical technology and law* (AY 2012-2013).

Organizational activities and Membership of Scientific Societies

2022 - **Member of Organizing committee** of NANOMED Workshop" FROM BIOTECHNOLOGY TO NANOBIOTECHNOLOGY AND VACCINES", Pavia, 11- 13 July 2022. https://www.nanomed2022.it/ The workshop is connected to EMJMD NANOMED
2019 - Current - **Member of Controlled Release Society Italian Chapter** (CRS IT Chpt)
2019 - Current - **Member of ADRITELF** (Associazione Italiana Docenti Ricercatori Tecnologia e Legislazione Farmaceutica)
2014 - **Charter member** of Italian Scientific Society on Mesenchymal Stem Cells (GISM - Gruppo Italiano Staminali Mesenchimali).

GRANTS

2023-2025, ANASTASIA – hybrid vesicular nANvectors AgainST pleural mesothelioma. PRIN – Progetti di ricerca di rilevante interesse nazionale – Bando 2022. CUP: F53D2300498. Role: Principal Investigator.
2023-2026, ImmunoHUB – Immunotherapy: treatment and prevention of infectious and cencerous diseases. Funding agency: MUR – PNRR. Role: coinvestigator.
2022-2025, National Center for Gene Therapy and Drugs based on RNA Technology - PNRR Mission 4. Funding agency: Italian Ministry of Health. Role: coinvestigator.
2018-2020, "ATEx - Advanced Therapies Experiences" - Programma di cooperazione Interreg V-A Italia-Svizzera 2014-2020. Project ID 637541. Project Coordinator: Dott.ssa Lorena Segale,

Università del Piemonte Orientale; Unit Coordinator: Prof.ssa Maria Luisa Torre, Università degli Studi di Pavia. Role: coinvestigator.

2015-2017, "MICROFLOWER - Characterization of high-biological value microalgae and model-based optimization of growth to upgrade the floristic facilities" Project Id. 2014-0601, Cariplo Foundation. Project Coordinator: Dr. K. Parati, Italian Research Institute "Lazzaro Spallanzani"; Unit Coordinator: Dr. T.Chlapanidas, Drug Sciences Dept. Role: coinvestigator.

2014-2016 - "STEMDELIVERY, Alginate and fibroin scaffolds for adipose derived mesenchymal stromal cells delivery and targeting for degenerative pathologies therapy". Regione Lombardia - Cariplo Foundation, Project Id. 42617604. Unit Coordinator: Prof. M.L. Torre, Drug Sciences Dept. Role: coinvestigator.

2013-2015 - "FIBROPAN, Fibroin scaffolds for the transplantation of pancreatic islets to treat diabetes pathologies". Cariplo Foundation, Project Id. 2012-0878. Unit Coordinator: Prof. M.L. Torre, Drug Sciences Dept. Role: coinvestigator.

2011-2013 - "FIBROSPHERE - Silk fibroin microsphere for bedsores effective treatment" EUROSTARS 2009, Eurostars project application E!5227. Unit Coordinator: Prof. M.L. Torre, Drug Sciences Dept. Role: coinvestigator.

2011-2012 - "Reproduction, wellness, longevity – RIPROWEL - Microsem", Project Coordinator: Italian Research Institute "Lazzaro Spallanzani"; Subcontractor: Prof. M.L. Torre, Drug Sciences Dept. Role: coinvestigator.

RESEARCH ACTIVITY

Research activies are focused in different areas of interest: 1) tissue regeneration mediated by mesenchymal stem cells and their extracellular vesicles; 2) development of drug delivery systems based on extracellular vesicles for controlled release of active pharmaceutical ingredients; 3) development of micro and nano drug delivery systems to improve the therapeutic efficacy of bioactive molecules; 4) development of three-dimensional scaffolds for tissue engineering and regenerative medicine applications; 5) development and production of lipid-based nanoparticles for RNA delivery.

Google Schoolar: https://scholar.google.it/citations?user=rZqL0ZUAAAAJ&hl=it

Scopus: https://www.scopus.com/authid/detail.uri?authorId=55531079500

INVITED SPEAKER

1. Invited Speaker to XXI Scuola Avanzata Dottorale in Tecnologia Farmaceutica, Strategie terapeutiche per le patologie vascolari: il ruolo della tecnologia farmaceutica, Università di Roma Sapienza, Roma 5-7 September 2022, lessons: Approcci formulativi per il wound healing.
2. Invited Speaker to the International Congress "Nanoscience and Nanotechnology", Frascati, 15-18 October 2019, Presentation title: "Freeze-dried extracellular vesicles for regenerative nanomedicine".
3. Invited Speaker to the International Congress "Therapeutic nanoproducts: from biology to innovative technology", Roma, Istituto Superiore di Sanità, 19-20 June 2019, co-organined by Istituto Superiore di Sanità (Centro Nazionale per la Ricerca e la Valutazione preclinica e clinica dei Farmaci) and Associazione Italiana di Colture Cellulari (AICC). Presentation title: "Mesenchymal stromal freeze-dried extracellular vesicles for nanomedicine: from GMP-compliant production to next generation drug delivery system".
4. Invited Speaker to the International Congress "8th International Conference on Boar Semen Preservation", University of Illinois, Champaign, Illinois, USA, 9-12 August 2015, Presentation title: "Sperm encapsulation from 1985 to date: technology evolution and new challenges in swine reproduction".

Autorizzo il trattamento dei miei dati personali presenti nel curriculum vitae ai sensi del D. Lgs. 30 giugno 2003, n. 196 e del GDPR (Regolamento UE 2016/279)" ai fini del rilascio di autorizzazione ad impieghi finalizzati all'uso di MOGM in ambiente confinato.

Pavia, 10/05/2024