

PERSONAL INFORMATION

Maria Cristina Bonferoni

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Nationality Italian

WORK EXPERIENCE

- 2018- Full Professor, Pharmaceutical Technology (SSD CHIM09), Department of Drug Sciences, University of Pavia
- 2018- Deputy Director of the Department of Drug Sciences of the University of Pavia
- 2022- Coordinator of the II level "Master Course in Pharmaceutical Technology and Regulatory Affairs"
- 2015-2021 Responsible for UniPV of the Cooperation Agreement between the Universities of Pavia and Sassari
- 2013- Member of the Quality Assurance team of the University of Pavia for the Science Area
- 2010-2013 Member of Scientific Committee of the Interuniversity Consortium TEFARCO Innova
- 2010-2013 Coordinator of the II level "Master Course in Preformulation, Pharmaceutical Development and Control of Medicinal products"
- 2005-2010 Member of Directive Committee of the Interuniversity Consortium TEFARCO Innova
- 2005- Member of the Teaching Board of PhD School of Biopharmaceutics and Pharmacokinetics, Universities of Parma and Pavia, from 2014 of PhD School of Experimental Medicine, UniPV, from 2022 of PhD in Chemical and Pharmaceutical Sciences and Industrial Innovation, UniPV
- 2004-2013 Erasmus Coordinator of the Department of Drug Sciences, University of Pavia
- 2007-2020 Evaluation of research projects (Israel Science Foundation, French National Research Agency, Miur) and consultant for AIFA for AIC Dossiers evaluation
- 2001-2018 Associate Professor, Pharmaceutical Technology (SSD CHIM09), Department of Drug Sciences, University of Pavia
- 1993-2001 Assistant Professor, Pharmaceutical Technology (C08X), Department of Drug Sciences, University of Pavia

EDUCATION AND TRAINING

- 1992 Graduation in Pharmacy, University of Pavia
- 1991 Ph.D. Degree in Pharmaceutical Chemistry and Technology, University of Pavia
- 1987 Specialization School in Industrial Pharmacy, University of Pavia
- 1984 Graduation in Chemistry and Pharmaceutical Technology, University of Pavia

WORK ACTIVITIES

- Teaching activities** Undergraduate courses (Pharmacy, Industrial Pharmacy, Biotechnology, Industrial Nanobiotechnology for Pharmaceutics): Pharmaceutical technology and law, Regulatory, Experimental designs, Preformulation and pharmaceutical development
Postgraduation programs (Master courses, PhD in Experimental Medicine, PhD in Chemistry and Pharmacy) Quality by design, Pharmaceutical excipients, Nanomedicine applications in medicine and surgery, DOE application in pharmaceutical development
- Editorial activity** Co-Editor of "Current Drug Delivery" (Benthamscience) ISSN: 1875-5704 (Online) 1567-2018 (Print); Member of the Editorial Board of: Pharmaceutics (MDPI) ISSN: 1999-4923; Nanomaterials (MDPI) ISSN: 2079-4991; Molecules (MDPI) ISSN: 1420-3049; Smart Materials in Medicine (KeAi) ISSN: 2590-1834.
- Invited presentations** BIT's Annual International Symposium of Drug delivery Systems, Praga (2017), EMN Meeting on Biomaterials, Milan (2018), NanoPT2018, Lisboa (2018)
- Funding-research grants** Ex-vivo and in-vitro study of mucoadhesive properties of new vehicles or formulations for ophthalmic

prolonged release. (Polglumyt POR Marche, Cod 002(C)SF09068). Combination of mucoadhesive materials and platelet derivatives for the therapy of mucositis from chemo-radiotherapy and from stem cells transplantation. (Fondazione CARIPLO n 2006-0654, 2007). Centro Nazionale sullo sviluppo di terapia genica e farmaci con tecnologia a RNA, Spoke9, PI of UniPV Unit (Centro Nazionale-CN3 CN_00000041). Immuno-HUB - Immunoterapia: cura e prevenzione di malattie infettive e tumorali (F13C22001110001 - T4-CN-02).

ADDITIONAL INFORMATION

Research expertise

Pharmaceutical development of controlled release formulations.

Study of mucoadhesion mechanisms, development of mucoadhesive dosage forms and of methods to measure mucoadhesion properties

Study of drug-polymer and polymer-polymer ionic interactions to obtain self-assembling microparticulate and nanoparticulate systems intended for mucosal and topical delivery of drugs

Development and characterization of colloidal systems (polymeric and lipid-based nanoparticles and micelles) for the delivery of poorly soluble drugs. Development of nanoparticles and nanofibers loaded with anti-infectives and antioxidants for wound healing.

Study of the ionic modification of bioactive polysaccharides (chitosan, glycosaminoglycans) with hydrophobic molecules to obtain amphiphilic polymers for the stabilization of nanoemulsions and nanosuspensions, and for the association with polymeric and lipidic nanoparticles (polymer-lipid hybrids). Preparation and characterization of drug hydrophobic salts. Development of nanoparticles for the delivery of antioxidant and anti-inflammatory agents, anti-infectives, polyphenols, class IV drugs, RNA. Nanoparticles for theranostic applications: association of nanoparticles with fluorescent probes to improve detection and treatment of cancer lesions and to support image guided precision surgery. Development of systems for the delivery of neuroprotective agents, essential oils and drugs to CNS by nose-to-brain route.

Total number of publications in peer review journals: 226 (Scopus, June 2024)

Total number of citations: 8497 (Scopus, June 2024)

H index: 55 (Scopus, June 2024)

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"Firmato da Maria Cristina Bonferoni copia originale firmata conservata agli atti"