PERSONAL INFORMATION

Maria Cristina Bonferoni

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Sex Female | *Date of birth 23*/08/1960 | *Nationality* Italian

Enterprise	University	EPR
☐ Management Level	☒ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
☐ Mid-Management Level	☐ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

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
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 (2017-2018 Vicarious-Coordinator of PQA)
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”
2020-	Coordinator of the II level “Master Course in Pharmaceutical technology and regulatory affairs”
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, and from 2014 of PhD School of Experimental Medicine, University of Pavia
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

Editorial activity Associate 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)

Patents 1) Caramella C.M., Bonferoni M.C. Complex between carrageenan and a water soluble drug having a specific granulometry and relative controlled release pharmaceutical compositions. PCT Application 1999 WO9921586;

European Patent Application 2000 EP1030689; US Patent and Trademark Office Granted Patent 2002 US6355272
2) De Gennaro M., Cerri G., Caramella C.M., Bonferoni M.C. Pharmaceutical zeolite-based compositions containing zinc and erythromycin to be used in the treatment of acne. PCT application 2002 WO 02100420
3) Caramella C.M., Bonferoni M.C., Giunchedi P. Compositions with controlled release of lactic acid at vaginal level. PCT Application 2003 WO03000224; Europen Patent Application 2004 EP1399129; US Patent and Trademark Office Pre-granted Publication US20040132690
4) Caramella C.M., Bonferoni M.C., Rossi S., Sandri G., Ferrari F., Perotti C., Del Fante C. Platelet lysate and bioadhesive compositions thereof for the treatment of mucositis, PCT Application 2010 WO2010064267 European Patent Application EP2373321; United States Patent and Trademark Office Pre-Granted Publication 2011 US20110280952
5) Ferrari F., Rossi S., Bonferoni M.C., Sandri G., Caramella C., Allegrini P., Pharmaceutical compositions, PCT Application 2014 WO2014053328; United States Patent and Trademark Office Pre-Granted Publication 2015 US20150272919
6) Bonferoni M.C., Sandri G., Rossi S., Ferrari F., Caramella C., "Oil-in-water nanoemulsions" PCT Application 2016 WO2016063119; European Patent Application 2017 EP3209283; United States Patent and Trademark Office Pre-Granted Publication 2017 US20170354596
7) Omini G, Bonferoni M.C., Sandri G., Rossi S., Caramella C., Ferrari F., Use of fine emulsions for the fractionated administration and for the organoleptic mask of unsaturated fatty acids PCT Application 2018 WO2018066011
8) Macelloni C., Longo L.M., Rossi S., Sandri G., Bonferoni M.C., Ferrari F. Liquid delivery composition (Cosmo Technologies Ldt), European Patent Application 2018 n 17210119.8-1109, 14-2-2018
9) Sandri G., Bonferoni M.C., Rossi S., Ferrari F. Electrospun nanofibers and membrane. (Università degli Studi di Pavia), PCT Application 2019 WO2019021325

ADDITIONAL INFORMATION

Research interests

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 and peptidic drugs and 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)

Development of amphiphilic chitosan coated nanoparticles (CS-NPs) loaded with antioxidants and polyphenols and as a carrier for the delivery of an antiviral SiRNA. Development of polymeric nanoparticles loaded with fluorophores for Photodynamic Therapy.

Development of therapeutic systems for nose-to-brain delivery of drugs intended for the treatment of neurodegenerative diseases, in particular of multiple sclerosis.

Total number of publications in peer review journals: 225 (Scopus)
Total number of citations: 8172 (Scopus)
H index: 54 (Scopus)