

PERSONAL INFORMATION

Carla Marcella Caramella

WORK EXPERIENCE

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- February 2017- Present **Professor Emeritus**
University of Pavia (Italy)
Teaching and research responsibilities at the Department of Drug Sciences, University of Pavia
- November 2015- Present **Contract professor**
University of Pavia (Italy)
Teaching responsibilities (undergraduate level, curricula in Pharmacy and in Pharmaceutical Chemistry and Technology: Procedure for Marketing authorization of medicinals Teaching responsibilities (post-graduate level): Director and docent of Biopharmaceutics of the Master Course in Pharmaceutical Technologies and Regulatory Affairs, member of the Advisory Board of the Doctorate in Pharmaceutical Sciences, Biomolecules and Health Products (University of Parma), Docent of Industrial manufacturing of Active Substances and Pharmaceutical Excipients of the Doctorate of Chemical and Pharmaceutical Sciences (University of Pavia) Italian coordinator (since 2016) of the Erasmus Mundus Joint Master Degree in Nanomedicine for Drug Delivery (ref.: 574439-EPP-1-2016-1-FR-EPPKA1-JMD-MOB)
- November 1986-November 2015 **full professor**
University of Pavia (Italy)
Teaching responsibilities(undergraduate level): Biopharmaceutics: 1986-94; Industrial Pharmacy: 1994-95; Pharmaceutics: 1995-2000; Cosmetic products: 2000-2001; Biopharmacy and Pharmaceutical Technology: 2001-2012; Applied Pharmaceutical Chemistry: 2012-15 Teaching responsibilities (post-graduate level): Master in Preformulation and Pharmaceutical Development:since 2002; Master in Pharmaceutical Technologies and Regulatory Affairs: since 2012, Doctorate in Biopharmaceutics and Pharmacokinetics: 1996-2013, Doctorate in Pharmaceutical Sciences, Biomolecules and Health Products, since 2013
- November 2003-October 2006 **Dean of the Faculty of Pharmacy**
University of Pavia (Italy)
Coordination of educational activities, management of Faculty budget
- 2002- 2005 **Director**
Interuniversity Consortium Tefarcolnova (Italy)
Promotion of educational activities and research collaborations with Institutions and Companies
- 1980- 1986 **Associate Professor**
University of Pavia (Italy)
Teaching responsibilities in applied medicinal chemistry and biopharmacy
- 1970- 1980 **assistant professor**
University of Pavia (Italy)
Research activities in the fields of pharmaceutical preformulation and biopharmacy. Applied medicinal chemistry and biopharmacy laboratory management
- July 2020- 2024 **Professor Emeritus**
University of Pavia (Italy)
Italian coordinator (since 2020) of the Erasmus Mundus Joint Master Degree in Nanomedicine for Drug Delivery, renewal

EDUCATION AND TRAINING

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- 1968- 1971 **Advanced degree in Pharmaceutical Chemistry and Technology**
University of Pavia (Italy)
Medicinal Chemistry, Applied medicinal chemistry, Physical Pharmacy, Biopharmacy,

Pharmaceutical Technology, Pharmaceutical Analysis, Pharmacology and Toxicology, Pharmacy Law

1964- 1967 **Degree in Pharmacy**
University of Pavia (Italy)

Pharmacy Practice, Pharmaceutical care, Pharmacology, Botany, Pharmacognosy, Galenics and compounding, Cosmetics, Dispensing of medicines, Pharmacy Law

ADDITIONAL INFORMATION

Expertise Scientific and technical expertise includes: Control of APIs, development and controls of drug products (solid and semisolid dosage forms), powder characterization, tablet disintegrants, disintegration mechanisms, suspension stability, solid state characterization, dissolution, in vitro diffusion studies, in vivo-in vitro correlation, viscometry, dynamic rheology, characterization of hydrophilic polymers, characterization of semisolids, mucoadhesion mechanisms and testins, intestinal and transmucosal absorption mechanisms, absorption enhancement strategies, use of cell cultures as bioassays in formulation development, cytotoxicity tests, wound repair strategies, In vivo model for wound healing. 259 published papers, including original papers, reviews, published abstracts and miscellaneous publications, ove 310 presentations at Conferences,17 book chapters, one text-book on Pharmaceutical Technology, H index: 46 (Scopus), more than 6000 citations. Co-inventor of 15 patents, some of them are owned by companies and two of them have been transferred from the University to companies for industrial exploitation. Computer skills Microsoft Office 2010 (Word, Excel, Powerpoint, Outlook, Publisher), Internet Explorer, Mozilla, Google Crome, Windows 10. Pharmacokinetic modelling programmes (Siphar, Kinetica), statistical elaboration (Statgraphics). Communication skills Has worked for about 45 years at the University (Pharmacy Department) with teaching and training responsibilities as reader, lecturer and professor both at undergraduate and postgraduate level (Doctorate, Master courses and continuing education courses) (see work experiences). Has participated at many national and international conferences as presenter of research papers and has delivered more about 105 invited lectures (including plenary and key-note lectures). Has been nominated in committees for the evaluation of the PhD thesis dissertation by the following Universities/Schools of Pharmacy : Milano 1 I, Torino I, Bologna-I, Geneve (CH), Groningen (NL), Granada (E), Tolouse (F), Oslo (N), Vitoria (E), Uppsala (SE), Helsinki (F),Trieste (I), Singapore (Singapore republic), University Teknologi Mara (Malaysia), Rhodes University Republic of South Africa), Beira Interior (PT), Barcelona (ES). Other job-related skills (scientific reviewing) Member of the Editorial Advisory Board of indexed journals (see membership). Extensive peer reviewing activity in the fields of pharmaceutics, biopharmacy, pharmaceutical technology, polymer science, chemical engineering, nanotechnology and biomedical nanomedicine. Editor of a special issue on Chitosans biomedical applications: opportunities and challenges in Pharmaceutics, an MPDI journal. Partecipation three times, in 2005 (member), 2007 (member) and 2008 (Chairman), at the evaluation board of the Academy of Finland for the assessment of research projects in the field of Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology. Other job-related skills (regulatory activities) Quality assessor of many applications for veterinary drugs, both national and MR/DC procedures (with Italy as RMS). Rapporteur/co-rapporteurs assessor in the evaluation of quality of about 50 centralized procedures, including SA. Quality assessor in MR/DC procedures for human drugs (with Italy as RMS). Quality assessor in CP/MR/DC procedures for human drugs (with Malta as RMS) Rapporteur and co-rapporteur for about 90 applications for the release of Certificates of suitability (CEP). Pharmaceutical expert nominated by the Civil Court -Milano (Italy) External expert of the WHO Biowaiver Pilot Project, HQ/TSN Technologies Standards and Norms,World Health Organization (2018-20)

Publications 259 published papers, including original papers, reviews, published abstracts and miscellaneous publications, over 300 presentations at Conferences, 17 book chapters, 1 Textbook in Pharmaceutical Technoloty, co-inventor of 15 patents List of recent publications including research papers, reviews, chapters in books and patents. Research papers and reviews (2019-2010) Borg, J.-J, Melchiorri, D, Sepodes, B, Caramella, C.M. et al., Optimising bench science to withstand regulatory scrutiny (Editorial), Pharmacological ResearchVolume 139, January 2019, Pages 491-493 C.M.Caramella, A. Valli, Unguenti oftalmici a base dell'associazione corticosteroide/antibiotico: Considerazioni biofarmaceutiche e cliniche -Il caso di Betabiopital unguento oftalmico, Minerva Oftalmologica, 2018, Vol. 60. Rossi, S.Email Author, Vigani, B., Bonferoni, M.C., Sandri, G., Caramella, C., Ferrari, F., Rheological analysis and mucoadhesion: A 30 year-old and still active combination.Journal of Pharmaceutical and Biomedical AnalysisVolume 156, 15 July 2018, Pages 232-238 Rossi, S., Mori, M., Vigani, B., Bonferoni, M.C., Sandri, G., Riva, F., Caramella, C., Ferrari, F., A novel dressing for the combined delivery of platelet

lysate and vancomycin hydrochloride to chronic skin ulcers: Hyaluronic acid particles in alginate matrices, *European Journal of Pharmaceutical Sciences* Volume 118, 15 June 2018, Pages 87-95 Saporito, F.a, Sandri, G., Rossi, S., Bonferoni, M.C., Riva, F., Malavasi, L., Caramella, C., Ferrari, F., Freeze dried chitosan acetate dressings with glycosaminoglycans and traxenamic acid, *Carbohydrate Polymers* Volume 184, 15 March 2018, Pages 408-417 Bonferoni, M.C., Riva, F., Invernizzi, A., Dellera, E., Sandri, G., Rossi, S., Marrubini, G., Bruni, G., Vigani, B., Caramella, C., Ferrari, F., Alpha tocopherol loaded chitosan oleate nanoemulsions for wound healing. Evaluation on cell lines and ex vivo human biopsies, and stabilization in spray dried Trojan microparticles, *European Journal of Pharmaceutics and Biopharmaceutics*, Volume 123, February 2018, Pages 31-41 Bonferoni, M.C., Sandri, G., Rossi, S., Dellera, E., Invernizzi, A., Boselli, C., Cornaglia, A.I., Del Fante C., Perotti, C., Vigani, B., Riva, F., Caramella, C., Ferrari, F., Association of alpha tocopherol and ag sulfadiazine chitosan oleate nanocarriers in bioactive dressings supporting platelet lysate application to skin wounds(Article), *Marine Drugs*, open access Volume 16, Issue 2, February 2018, Article number 56 M. Tenci, S. Rossi, M. C. Bonferoni, G. Sandri, I. Mentori, C. Boselli, A. Icaro Cornaglia, M. Daglia, A. Marchese, C. M. Caramella, F. Ferrari, Application of DoE approach in the development of mini-capsules, based on biopolymers and manuka honey polar fraction, as powder formulation for the treatment of skin ulcers, *Int. J. Pharm.*, 516 (2017) 266-277 G. 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Marciello, M., Rossi, S., Caramella, C., Remuñán-López, C., Freeze-dried cylinders carrying chitosan nanoparticles for vaginal peptide delivery, *Carbohydrate Polymers* Volume 170, 15 August 2017, Pages 43-51 Mackie, A.R., Goycoolea, F.M., Menchicchi, B., Caramella, C.M., Saporito, F, Lee, S., Stephansen, K., Chronakis, I.S., Hiorth, M., Adamczak, M., Waldner, M., Nielsen, H.M., Marcelloni, L., Innovative Methods and Applications in Mucoadhesion Research, *Macromolecular Bioscience* Volume 17, Issue 8, August 2017, Article number 1600534 Sandri, G., Aguzzi, C., Rossi, S., Bonferoni, M.C., Bruni, G., Boselli C., Cornaglia, A.I., Riva, F., Viseras, C., Caramella, C., Ferrari, F., Halloysite and chitosan oligosaccharide nanocomposite for wound healing, *Acta Biomaterialia* Volume 57, 15 July 2017, Pages 216-224 Bonferoni, M.C., Sandri, G., Rossi, S., Usai, D., Liakos, I., Garzoni, A., Fiamma, M., Zanetti, S., Athanassiou, A., Caramella, C., Ferrari, F., A novel ionic amphiphilic chitosan derivative as a stabilizer of nanoemulsions: Improvement of antimicrobial activity of *Cymbopogon citratus* essential oil, *Colloids and Surfaces B: Biointerfaces* Volume 152, 1 April 2017, Pages 385-392 Budai-Szucs, M., Horvát, G., Gyarmati, B., Szilágyi, B.Á., Szilágyi, A., Berkó, S., Ambrus, R., Szabó-Révész, P., Sandri, G., Bonferoni, M.C., Caramella, C., Csányi, The effect of the antioxidant on the properties of thiolated poly(aspartic acid) polymers in aqueous ocular formulations, *European Journal of Pharmaceutics and Biopharmaceutics* Volume 113, 1 April 2017, Pages 178-187 Sandri, G., Bonferoni, M.C., Rossi, S., Ferrari, F., Aguzzi, C., Viseras, C., Caramella, C., Clay minerals for tissue regeneration, repair, and engineering (Book Chapter), *Wound Healing Biomaterials* Volume 2, 1 June 2016, Pages 385-402 M. Budai-Szucs, G. Horvát, B. Á. Szilágyi, B. Gyarmati, A. Szilágyi, S. Berkó, P. Szabo-Révész, G. Sandri, M. C. Bonferoni, C. Caramella, J. Soós, A. Facskó, E. Csányi, Cationic thiolated poly(aspartamide) polymer as a potential excipient for artificial tear formulations, *Journal of Ophthalmology*, article number 2647264 (2016) G. Sandri, M.C. Bonferoni, S. Rossi, A. Delfino, F. Riva A. Icaro Cornaglia, G. Marrubini, G. Musitelli, C. Del Fante, C. Perotti, C. Caramella, F. Ferrari, Platelet lysate and chondroitin sulfate loaded contact lenses to heal corneal lesions, *Int. J. Pharm.*, 509 (2016) 188-196 Tenci, M., Rossi, S., Bonferoni, M.C., Caramella, C., Ferrari, F. 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MATERIALS TECHNOLOGY, vol. 29 (2014), p. B96-B99 M.C. Bonferoni, G.Sandri, E. Deller, S. Rossi, F. Ferrari, M. Mori, C. Caramella. Ionic polymeric micelles based on chitosan and fatty acid and intended for wound healing. Comparison of linoleic and oleic acid. . EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol. 87 (2014) p. 101-106 Deller E, Bonferoni MC, Sandri G, Rossi S, Ferrari F, Del Fante C, Perotti C, Grisoli P, Caramella C., Development of chitosan oleate ionic micelles loaded with silver sulfadiazine to be associated with platelet lysate for application in wound healing, Eur. J. Pharm. Biopharm., 88 (2014) 643-650 S. Rossi, M. C. Bonferoni, F. D'Autilia, G. Sandri, F. Ferrari, C. Caramella, E. Mortara, V. Giannini, F. Gasparri, Associations of natural polymers to modulate mucoadhesion of vaginal rinse-off and leave-on formulations, Journal of Drug Delivery Science and Technology, J. DRUG DEL. SCI. TECH., 24 (5) 496-502 2014 L. A. Frank, F. D'Autilia, R. V. Contri, G. Sandri, M. C. Bonferoni, C. Caramella, A. R. Pohlmann, S. S. Guterres, Chitosan gel containing polymeric nanocapsules: a new formulation for vaginal drug delivery, International Journal of Nanomedicine, 9 (1) (2014) 3151-3161 S. Rossi, F. Ferrari, M. C. Bonferoni, G. Sandri, A. Faccendini, A. Puccio, C. Caramella, Comparison of poloxamer-based thermally sensitive gels for the treatment of vaginal mucositis, Drug Dev. Ind. Pharm., 40 (2014): 352-60 C. Aguzzi, G. Sandri, C. Viseras, M. C. Bonferoni, P. Cerezo, S. Rossi, F. Ferrari, C. Caramella. Solid state characterisation of silver sulfadiazine loaded on montmorillonite/chitosan nanocomposite for wound healing , Colloids and Surfaces B: Biointerfaces 113 (2014) 152 157 M. Mori, S. Rossi, M.C. Bonferoni, F. Ferrari, G. Sandri, F. Riva, C. Del Fante, C. Perotti, C. Caramella. Calcium alginate particles for the combined delivery of platelet lysate and vancomycin hydrochloride in chronic skin ulcers, International Journal of Pharmaceutics, 461 (1-2) (2014), 505-513. G. Sandri, M. C. Bonferoni, F. Ferrari, S. Rossi, C. Aguzzi, M. Mori, P. Grisoli, P. Cerezo, M. Tenci, C. Viseras, C.

Caramella, Montmorillonite-chitosan-silver sulfadiazine nanocomposites for topical treatment of chronic skin lesions: in vitro biocompatibility, antibacterial efficacy and gap closure cell motility properties, *Carbohydrate Polymers*, 102 (2014) 970977 Dongfei Liu, Luis M. Bimbo, Ermei Makilä, Francesca Villanova, Martti Kaasalainen, Barbara Herranza, Carla M. Caramella, Vesa-Pekka Lehto, Jarno Salonen, Karl-Heinz Herzig, Jouni Hirvonen, Hélder A. Santos. Co-delivery of a hydrophobic small molecule and a hydrophilic peptide by porous silicon nanoparticles. *JOURNAL OF CONTROLLED RELEASE*, 170(2) (2013), p. 268-278 Mori MM, Airaksinen AJ, Hirvonen JT, Santos HA, Caramella CM. Evaluation of the physicochemical and biopharmaceutical properties of fluoro-indomethacin. *CURRENT DRUG METABOLISM*, 14 (2013). p. 80 - 89 S. Rossi, A. Faccendini, M.C Bonferoni, F. Ferrari, G. Sandri, C. Del Fante., C.Perotti, C.M.Caramella. Sponge-like dressings based on biopolymers for the delivery of platelet lysate to skin chronic wounds. *INTERNATIONAL JOURNAL OF PHARMACEUTICS*, 440 (2013), p. 207 - 215 G. Sandri, M. C. Bonferoni, F. D'Autilia, S. Rossi, F.Ferrari, P. Grisoli, M. Sorrenti, L.Catenacci, C. Del Fante, C. Perotti, C. Caramella. Wound dressings based on silver sulfadiazine SLN for tissue repairing. *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS*, 84 (2013), p. 84 - 90 C. Caramella, G. Sandri, S. Rossi, M. Mori, M.C. Bonferoni, F. Ferrari, C. Del Fante, C. Perotti. New therapeutic platforms for the treatment of epithelial and cutaneous lesions. *CURRENT DRUG DELIVERY*, 10 (2013), p. 18 - 31 I. Salcedo, C. Aguzzi, G. Sandri, M.C. Bonferoni, M. Mori, P. Cerezo, R. Sanchez, C. Viseras, C. Caramella (2012). In vitro biocompatibility and mucoadhesion of montmorillonite chitosan nanocomposite: a new drug delivery. *APPLIED CLAY SCIENCE* (ISSN:0169-1317) p. 131- 137 Vol. 55 G. Sandri, S. Rossi, M.C. 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An in situ gelling buccal spray containing platelet lysate for the treatment of oral mucositis. *CURRENT DRUG DISCOVERY TECHNOLOGIES* (ISSN:1570- 1638) p. 277 - 285 Vol. 8 A. Puccio, F. Ferrari, S. Rossi, M. C. Bonferoni, G. Sandri, C. Dacarro, P. Grisoli, C. Caramella (2011). Comparison of functional and biological properties of chitosan and hyaluronic acid, to be used for the treatment of mucositis in cancer patients. *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY* (ISSN:1773-2247) p. 241 - 247 Vol. 21 C. Aguzzi, A. Ortega, M.C. Bonferoni, G. Sandri, P. Cerezo, I. Salcedo, R. Sánchez, C. Viseras, C. Caramella (2011). Assesment of antiinflammatory properties of microspheres prepared with chitosan and 5-amino salicylic acid over inflamed Caco2 cells. *CARBOHYDRATE POLYMERS* (ISSN:0144-8617) p. 638 - 644 Vol. 85 Ursino M.G., Poluzzi E., Caramella C., De Ponti F. (2011). Excipients in medicinal products used in gastroenterology as a possible cause of side effects. *Regulatory Toxicology and Pharmacology*, vol. 60, p.93-105 C. Aguzzi, P. Capra, M.C. Bonferoni, P. Cerezo, R. Sanchez, C. Caramella, C. Viseras (2010). Chitosan-silicate biocomposites to be used in modified drug release of 5-aminosalicylic acid (5-ASA). *Applied Clay Science*, vol. 50, p.106-111 S. Rossi, M. Marciello, M.C. Bonferoni, F. Ferrari, G. Sandri, C. Dacarro, P. Grisoli, C. Caramella (2010). Thermally sensitive gels based on chitosan derivatives for the treatment of oral mucositis. *EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS* (ISSN:0939-6411) p. 248 - 254 Vol. 74 M. C. Bonferoni., G.Sandri, F. Ferrari, S. Rossi, V. Larghi, Y.Zambito, C.Caramella (2010). Comparison of different in vitro and ex vivo methods to evaluate mucoadhesion of glycol-palmitoyl chitosan micelles. *JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY* (ISSN:1773-2247) p. 419 - 424 Vol. 20 M. 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Projects Organizational activities, both educational and research project oriented. Supervisor of the research work of about 35 people including PhD students, post-doc and grant holders, conducted in collaboration with different research groups in different academic and industrial contexts. Has started and maintained scientific/educational collaborations with the following Universities: University of Granada (E), University of Northern Basque Country (E), University of Paris V (F), University of Groningen (NL), University of Helsinki (F), University of Uppsala (SE), University of Oslo (N), University of Sveged (HU), University of Ege (TR), Purdue University (US), University of Marseille (F), University of Rosario (AR). Coordinator 2016-19 (University of Pavia) of the Erasmus Mundus Joint Master Degrees (EMJMD) NANOMEDICINE FOR DRUG DELIVERY (NANOMED) (intake 1 and 2), Reference number 574439-EPP-1-2016-1-FR-EPPKA1-JMD-MOB, approval by the Education, Audiovisual & Culture Executive Agency (EACEA) communicated on date 13.07.2016. Has been Coordinator of research projects funded by University of Pavia (since 1996), CNR (1994-99) CE (INTAS 2001-03), PRIN (2002 and 2005), Cariplo Foundation on reparative medicine (2007-10), Regional Government of Marche (2009-11). Coordinator of Research projects presently concluded (see updated Declaration of interest). with pharmaceutical companies (e.g. Eurand International, Convatec U.K, Procter & Gamble Belgium, ALFA-Wassermann, Montereas, Dompè Farmaceutici, Angelini ACRAF, Rottapharm Madaus, Helsinn Healthcare SA, Fidia Farmaceutici, PH&T s.r.l., SIIT s.r.l., Aboca s.p.a., Doppel Farmaceutici S.r.l., Sanofi S.p.a., Thea Pharma) and Hospital (IRCCS Policlinico S.Matteo Pavia) in the fields of expertise including the development of innovative technological platforms for drug delivery. Main organizer of more than 40 events including educational seminars, workshops and symposia in the following fields: Preformulation studies, Dissolution, Prediction and modelling of pharmacokinetic and biopharmaceutical parameters, Design and development of oral drug delivery systems, Cell culture

methods, Challenges and opportunities of Biosimilars, Drug delivery systems for biotech products, Pharmacokinetic studies in phase I clinical trials, Combination products and innovation in drug delivery systems, Mucoadhesion and testing methods, Regulatory expectations on drug substance impurities: authority and industry perspective, Modern analytical techniques in pharmaceutical Industry-a tool to support pharmaceutical quality and to ease regulatory process, Pharmacovigilance: present and future, Data integrity in API Industry, ASMF: GMP perspective and regulatory compliance- from starting materials to API.

Memberships

Scientific membership Member of the Editorial Advisory Board of Pharmaceutical Development and Technology, AAPS PharmSciTech, European Journal of Pharmaceutical Sciences, Journal of Drug Delivery Science and Technology, Journal of Pharmaceutical Sciences, Molecular Pharmaceutics, NJ Pharmacy and Pharmacology, Progress on Chemistry and Application of Chitin and its Derivatives Editor of Journal of Drug delivery Editor (special issue) of Pharmaceutics Member of AAPS, Elected AAPS fellow in 2001 Member of CRS (Controlled Release Society) Member of EUFEPS (European Federation of Pharmaceutical Scientists Member of the Executive Board of AFI (Italian Association of Industrial Pharmacists) Member (Secretary) of SIFEB (Italian Society of Pharmacokinetics and Biopharmaceutics Regulatory Body memberships/expertise Member of the Committee for the Evaluation of Veterinary Medicinal Products (1996-2016) appointed by the Italian Ministry of Public Health Member (since 2016) of The Technical Committee for Nutrition and Animal Health (Subcommittee for Veterinary medicines) appointed by the Italian Ministry of Public Health Member of the ISO /TC 24 SC/ 4 (Subcommittee Sizing by methods other than sieving) and representative of UNI therein Expert appointed by EMEA for the scientific evaluation of centralized applications (since 1998) Member, appointed by the Italian Agency for Medicines (AIFA), of the secretariat UVA (Evaluation and Marketing Authorization Office) (since 2012) Expert, appointed by AIFA, for the quality of medicinals (2014) Expert rapporteur for the procedure for the certification of suitability of monographs of the EP (since 1999) Quality external assessor for Medicines Authority Malta (since 2017)

Other Relevant Information

Honours and Awards "Commendatore della Repubblica Italiana" nominated by the President, 2006 Elected AAPS Fellow 2001 A.F.I. award (2002, 2004 and 2010) for her cooperation with the Association as an academic member Award of Commendatore al merito della Repubblica Italiana (2007) for academic services First recipient of the Ralph Shangraw Memorial prize , created by IPEC American Foundation, Atlanta 2008, for innovative research in the fields of pharmaceutical excipients JDDST Award for the best article published on Journal of Drug Delivery Science and Technology in 2011 Elsevier recognition for the most cited article published on European Journal of Pharmaceutical Sciences in 2004 European Journal of Pharmaceutics and Biopharmaceutics award as " Top reviewer in 2007" APhA (American Pharmacists Association) award as Outstanding reviewer of the Journal of Pharmaceutical Sciences, 2012 APhA (American Pharmacists Association) award as Outstanding reviewer of the Journal of Pharmaceutical Sciences, 2017 International Journal of Pharmaceutics certificate as "Outstanding reviewer 2018"