

Barbara STELLA graduated in 1997 with honors in Pharmaceutical Chemistry and Technology at the Faculty of Pharmacy of the University of Turin with experimental research on the preparation and stability study of sterically hindered disulfide cross-linked immunotoxins. She was awarded the prize for the Best Graduation Thesis on Pharmaceutical Chemistry and Technology of the University of Turin for the academic year 1995/1996. In 1997 she was certified as pharmacist. She received her Ph.D. both in Italy and France with a co-tutorial research project between the University of Turin and the University of Paris XI under the supervision of prof. Luigi Cattel and prof. Patrick Couvreur, working on the preparation and the active targeting of long-circulating biodegradable nanoparticles for the administration of antitumor drugs. She was awarded the Prix de Thèse de Pharmacotechnie et Pharmaco-chimie, academic year 2004/2005, from the Faculty of Pharmacy of the University of Paris XI.

From 2001 to 2007 she was granted fellowships for continuous full-time research in the Department of Drug Science and Technology of the University of Turin. Moreover, from 1998 she did several internships at the Centre d'Études Pharmaceutiques of the Faculty of Pharmacy of the University of Paris XI working on particulate systems for antitumor therapy in the research group UMR CNRS 8612 led by prof. Patrick Couvreur.

From 2008 to 2017 she was Assistant Professor in the Department of Drug Science and Technology of the University of Turin. From 2017 she is Associate Professor in the same Department.

Her research activity mainly concerns the delivery of drugs with nanoparticles and liposomes, the conjugation with proteins and polymers and the association with targeting moieties able to specifically recognize tumor antigens expressed on cancer cell surface. Moreover, she collaborated in the study of analytical methods and the evaluation of the clinical pharmacokinetics of antitumor drugs in clinical practice. All these works have been carried out collaborating with several national and international multidisciplinary research teams.

She has been tutor or co-tutor of the experimental work for the graduation thesis of numerous students on the degree courses of Pharmaceutical Chemistry and Technology, Pharmacy, Drug Information and on the postgraduate school of Hospital Pharmacy of the University of Turin. She also collaborated in the research of several Ph.D. students in the Department of Drug Science and Technology.

She is a member of the Controlled Release Society (Italy Chapter), ADRITELF, Consorzio TEFARCO Innova and Nanopharmanet network.

She is the reviewer of scientific papers for the most important international journals of her scientific domain. She is author of about 70 papers published in international journals, more of 130 conference abstracts and 4 patents in the field of drug delivery.