

**Enza Torino** graduated in Chemical Engineering from the University of Salerno (Italy) in 2006. Life time goal of her research interests has always been obtaining of nanostructures and the exploitation of their fascinating properties. Since her bachelor degree, she worked on carbon nanotubes to increase polymer strength and later on, during her master degree, she used the thermodynamics on several processes to improve the characteristic of the nanoparticles in the pharmaceutical field (size, shape, and charge). She gained a Ph.D. in Chemical Engineering on the development of novel technologies for the production of nanoparticles, addressed to the study, characterization, and development of new processes and materials, at University of Salerno (ITALY) – Supervisor Prof Ernesto Reverchon. Her research has always been devoted to the nanotechnologies in the medical field. Starting from her background in chemical engineering, she was involved in a project for the pharmaceutical industry in Switzerland to design a process to increase the bioavailability of several drugs and later she spent part of her Ph.D. to study how nanoparticles can be modified using surfactants to enhance their delivery properties in a biological environment. Indeed, during her Ph.D. she also worked as visiting scientist at University of Texas at Austin – Texas (USA), studying emulsions and microemulsions formation and stability for pharmaceutical and energy applications – supervisors Prof. Keith P. Johnston – and she was also involved in a Collaboration project on EOR (Enhanced Oil Recovery) supported by Dow Chemicals and Petroleum and Chemical Engineering Department at UT at Austin (TX). After her Ph.D., she worked as Guest Scientist at the “School in Advanced Optical Technologies” (SAOT) established at the University of Erlangen-Nuremberg - Department of Chemical and Bioengineering within the framework of the Excellence Initiative of the German Federal and State Governments, where she studied on situ laser diagnostic techniques to understand the mechanism of precipitation involved in processes for production of polymer and drug nanoparticles. In Germany, she has also participated in activities on the control and manipulation of pharmaceutical emulsions to produce nanospheres or nanocapsules by Microfluidic technique. In the last six years, she worked as Post Doc Researcher at Italian Institute of Technology – Center for Advanced Biomaterials for Health Care- coordinated by Prof. Paolo Antonio Netti – at Theranostic Engineered Nanoshuttle (TeNs) Platform, where she designed new processes to obtain novel polymer based engineered Nanoshuttles for in vivo application in diagnostic and therapy. Enza Torino has given several talks has invited speaker, she is the author of several publications on peer-reviewed multidisciplinary journal, international patents and book chapters and she has been principal investigator and involved in several national and international projects. Currently, she is working at researcher in Bioengineering at the University of Naples “Federico II” at the Department of Chemical, Materials and Production Engineering.