

## CURRICULUM VITAE

### Daniela Chirio, Associate Professor

Born in Turin on March, 13th 1977.

2002: Degree in Pharmaceutical Chemistry and Technology, thesis entitled “Deformable liposomes as topical formulations containing  $\alpha$ -tocopherol”

2007: Ph. D. in “Drug Chemistry”, thesis entitled “Hydrophilic systems as drug release carriers”

2007-2009: Post-doc grant about the preparation and characterization of polymeric and lipidic systems as drug carriers.

2009-2010: holder of grants in Pharmaceutical Science about preparation of lipidic carriers as drug delivery systems with electrospray technique.

2010-2022: Researcher of Pharmaceutical Technology in the Department of Drug Science and Technology, University of Turin

2011/12-2019/20: Teacher of “Cosmetic Product Chemistry”, Department of Drug Science and Technology, University of Turin

2011/12-today: Teacher of “Technology and legislation of herbal products”, Department of Drug Science and Technology, University of Turin.

2022-today: associate professor of Pharmaceutical Technology in the Department of Drug Science and Technology, University of Turin.

Coauthor of 45 full papers in international journals with impact factor. She took part as component of Operative Unit to the following financed projects: -Bando per il finanziamento di progetti di ricerca di Ateneo - Year 2011 - Compagnia di San Paolo: "Development of solid lipid nanoparticles (SLN) as vehicles of antineoplastic drugs to improve the pharmacological glioblastoma therapy" - Bando per il finanziamento di progetti di ricerca di Ateneo - Year 2011 - Compagnia di San Paolo: “Development of oxidic and polymeric materials for stimuli responsive applications (OXYPOLISTI)”

Daniela Chirio has focused most of her research in the pharmaceutical field, regarding the development and characterization of colloidal systems such as emulsions, liposomes, lipid micro- and nanoparticles to be proposed for drug administration. She has focused her research on the formulation of solid lipid nanoparticles (SLN) as potential drug delivery systems, produced with different techniques. Several model drugs were entrapped in SLN and their characterization was performed. Recently, the experimental work has been focused on the formulation and characterization of SLN, to be used as antineoplastic drug carriers in post-surgical glioblastoma therapy. At present, a new method was developed to produce SLN adapting the solvent diffusion technique, which has been applied up today only to emulsive systems, also to microemulsions. Nanoparticles, produced with this method and loaded with different drugs, were tested in several pathologies. Actually, particular attention is addressed to osteosarcoma treatment.