

Course: Formulation and delivery of biotech drugs

Duration: 24 hours

Teacher(s): PASUT Gianfranco

SCHIAVON Oddone

Curriculum: Pharmaceutical Sciences

Description:

The course will focus on the advanced approaches of protein delivery. Firstly, the potentials of proteins as therapeutic agents will be introduced together with their limits and instabilities. Common solutions of protein formulation and the process of lyophilization will be explained. After this introduction the several advanced protein delivery approaches will be presented in details. Particular emphasis will be dedicated to the field of polymer conjugation to proteins both with chemical or enzymatic methods. Other approaches, such as fusion proteins, hyperglycosylation and inclusion in liposomes and hydrogels will be presented together with a brief introduction on the specific drug delivery systems under discussion.

The course aims to enable students to develop the skills needed for the development of a protein formulation and the design and preparation of advanced drug delivery systems.