

Course for Ph.D. students 40th cycle (Nov 2024 – Oct 2027)

**Pharmacokinetic Optimization in Drug Research:
Physico-chemical properties and in vitro ADME
(1 ECTS)**

Prof. Federica Vacondio

UNIVERSITY OF PARMA

Course language: English

Friday 21st February 2025 14:30-17:30

Friday 28th February 2025 14:30-17:30

To attend the course please contact: federica.vacondio@unipr.it

Course description

The course will be divided into two different parts: one focused on the experimental determination and data interpretation on physicochemical properties (pKa, lipophilicity, solubility,..), the other focused on *in vitro* ADME properties (metabolic stability and metabolite identification workflow, permeability, plasma and tissue protein binding, drug transporters, ..) which will be critically evaluated as factors and predictors of pharmacokinetic behavior. Case studies will be presented to show how the study of structure-property relationships could be successfully applied to select the most promising candidates to further development.