

**Course for Ph.D students
37th cycle (Nov 2021 – Oct 2024)**

**Pharmacokinetic optimization in drug research:
physico-chemical properties and in vitro ADME
(1 ECTS)**

Prof. Federica Vacondio
University of Parma

Course language: English.

Course Schedule:

Friday, Feb 18 2022 (14:30-17:30)

Friday, Feb 25 2022 (14:30-17:30)

*To attend the course please contact **Federica Vacondio** (federica.vacondio@unipr.it)
by e-mail from 10/1/2022 to 10/2/2022.*

Course description

The course will describe the experimental approaches and related analytical techniques employed in the measurement of physico-chemical properties (ionization behavior, lipophilicity, solubility, hydrogen-bonding) and in vitro ADME (metabolic stability, metabolite ID, permeability), factors which could significantly impact on the in vivo behavior of new chemical entities. Case studies will be presented showing how knowledge taken from structure-property relationships could help to unveil hidden pharmacokinetic defects and to select the most promising candidates to further development.