

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

Alternative methods in preclinical drug testing (1 ECTS)

Prof. Bertoni Simona
University of Parma

Course language: English

The lessons will be given in room **C** - Pharmacy Building - in the following dates:

February, 11th: 10.30-12.30

February, 18th: 10.30-12.30

February, 27th: 10.30-12.30

To attend the course please contact:

Prof. Simona Bertoni (simona.bertoni@unipr.it)

Course description

The course focuses on the current *in vitro* cell-based methods and their most recent advances as alternative approaches to animal testing in drug discovery/development and toxicology. In particular, 3D cell cultures, comprising spheroids, organoids and organ-on-chip technology, will be described and critically discussed, highlighting challenges and limitations.

Examples of applications will be presented as preclinical models to evaluate drugs safety/efficacy in various target organs and in different patho-physiological conditions (e.g. monogenic disorders, cancer, IBD).