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

Alternative methods in preclinical drug testing
(1 ECTS)

Prof. Simona Bertoni
University of Parma

Course language: English

Approximative scheduling: January-February
The exact date and time will be announced by e-mail and on the website in the page “Active courses” for each session.

To attend the course please contact:
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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 in 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, pregnancy).