

Name: Preclinical studies in oncology / Badania przedkliniczne w onkologii
Lecture language: **English**

ECTS: 1 point

Module content Lectures (5h)

Responsible teacher: **Magdalena Cybulska-Lubak, PhD**

Module summary:

Preclinical studies, including *in vitro* studies with cell line models and *in vivo* studies with animal models, comprise an important part of cancer research enabling elucidating cancer molecular mechanisms and discovery of novel therapeutic targets. This module briefly summarizes *in vitro* and puts more emphasis on *in vivo* methods used in preclinical studies. The continuous scientific progress in technologies followed by an increased understanding of cancer biology will allow the development of more sophisticated preclinical disease models more accurately recapitulating human cancer. In turn, the improved models will increase the success rates of future clinical trials.

14.05.2025 środa

10.00 am 1. Drug development pathway (1h) – Magdalena Cybulska-Lubak, PhD

11.00 am 2. *In silico* and *in vitro* - identification and evaluation of new anti-cancer agents (1h) – Magdalena Cybulska-Lubak, PhD

21.05.2025 środa

10.00 am 3. *In vivo* studies - pharmacokinetics and pharmacodynamics (1h) – Magdalena Cybulska-Lubak, PhD

11.00 am 4. Mouse models in oncology drug development (1h) – Magdalena Cybulska-Lubak, PhD

28.05.2025 środa

10.00 am 5. From *in vitro* to *in vivo* - how to design your *in vivo* studies in oncology (1h) – Magdalena Cybulska-Lubak, PhD

Teaching methods and techniques:

- Lectures: The topics presented in the lecture are shown in the form of a multimedia presentation in Teams application

The conditions obtaining the acknowledge for the classes, including the rules of exam retaking, as well as the conditions of admission to the exam:

In order to pass the subject a positive grade must be obtained from a test on the entirety of the theoretical material. **The exam is scheduled following the last lecture!**

Participation rules in classes:

- Attendance is mandatory: **Yes (at least 3 out of 5 lectures)**
- Participation rules in classes: Students that take part in the classes will learn subsequent topics according to the syllabus of the class. Students should systematically ask questions. Recording of the lecture can only be done with the approval of the lecturer.

The method and mode of making up for the absences

If the requirements are met for obtaining a passing grade, the student is required to independently catch up with the material. If he/she fails to do so, he/she must obtain a positive grade on a test that pertains to the material discussed during his absence.

Prerequisites and additional requirements:

Without requirements