

***Graduate Program in Molecular Cell Biology and Oncology:
MCBO Methods Courses***

Special Lecture/Course in: Translational Oncology I

Lecturer: Natalie Sampson, Martin Puhr, Georg Schäfer, Guido Wollmann

Number: 041538

Type: PR ECTS: 1,5

Character: Laboratory practical + introductory lecture

Time/Date: To be announced

Location: To be announced

Limited number of places YES, number of places minimum 3, maximum 6, registration necessary YES

For registration or questions please contact natalie.sampson@i-med.ac.at

Aim:

Provide an insight into different methods for addressing research questions related to translational oncology

Description/contents:

The course will be divided into 2 parts. In the first part (human tissue), a lecture style-introduction will provide the students with the technical background to the different methods included in the practical. Thereafter, in hands-on practical sessions the students will be shown how to archive, quality control and prepare surgical tumor tissue from patients. During the practical the students will perform cutting of FFPE and fresh frozen prostate tissue sections, immunohistochemical detection of tumor markers and prognostic markers, imaging and semi-quantification of human immunohistochemical stained tissues and tissue microarrays, as well as isolate and culture primary human cells from biopsy material. In the second part (mouse tissues) following a one-hour method lecture, students will learn the following mouse tumor model procedures: establishing and measuring subcutaneous tumor models, i.v. and intratumoral treatment, luciferase life imaging, and stereotactic intracranial tumor grafting.

Suggested reading: