

BIO-667

**Practical - Huelsken Lab (EDMS)**

Huelsken Joerg

Cursus	Sem.	Type
Molecular Life Sciences		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Oral presentation
Workload	30h
<b>Hours</b>	<b>20</b>
Lecture	8
Exercises	2
Practical work	10
<b>Number of positions</b>	<b>4</b>

**Frequency**

Every year

**Remark**

3-day Block course, every year in January. To register, contact EDMS Administration

**Summary**

Assessment of signaling mechanisms in cancer. The objectives of the course are: - to understand the importance of signaling and cell-cell interactions in cancer stroma interactions - to learn techniques involved in assessing the function of such interactions in vitro and in vivo.

**Content**

Basics of major signaling pathways, experimental assays to detect pathway activity in vitro and in vivo and approaches to identify signaling mechanisms at various levels.

Practical part:

- Preparation of primary cell cultures and viral transduction.
- Detection of signaling activity in situ and in vitro using reporter constructs and localization of signaling components.

**Note**

Please note that you are not allowed to inscribe in your own group!

Note that 3 practical courses are mandatory for all EDMS students and that they have the priority; each course has between 2 to 4 possible slots.

**Therefore, please do not register by yourself to this course, this will be done by the EDMS program administrator!**

**Resources****Websites**

- <http://huelsken-lab.epfl.ch/>