

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
Hours	20
Courses	8
Exercises	2
TP	10
Number of positions	4

Frequency

Every 2 years

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

Note that while the course is open to all first year EPFL doctoral students, priority will be given to EDMS students, given that they are mandated to take three of EDMS practical modules. Note also that doctoral students from the Huelsken laboratory cannot take this course. Access is limited to 3 students.

Resources**Websites**

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