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 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.

## Resources

### Websites

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