

BIO-666

**Practical - Blokesch Lab**

Blokesch Melanie

Cursus	Sem.	Type
Molecular Life Sciences		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Oral presentation
Workload	30h
<b>Hours</b>	<b>24</b>
Lecture	6
Practical work	18
<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**

How to look at tiny things: visualizing protein localization in bacteria using epifluorescence microscopy.

**Content**

Theory:

- Basics on protein localization in bacteria.

Practical part:

- Preparing bacteria for microscopy.
- Staining methods to visualize bacteria.
- Epifluorescence microscopy.
- Comparison of protein localization depending on protein levels (varying artificial induction).
- Basic image analysis (MicrobeTracker).
- Independent analysis of an unknown bacterium for cell shape and potential localized fluorescently labeled proteins.

**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!****Assessment methods**

Oral presentation

## Resources

### Websites

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