

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
Hours	24
Courses	6
TP	18
Number of positions	4

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 cannot register in your own group Practical!

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/>