

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
Lecture	6
Practical work	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 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/>