

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

Next time in January 2020 or 2021 (depending on number of new PhD students in the EDMS program). 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.

Assessment methods

Oral presentation

Resources**Websites**

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