Frequency
Every year

Remarque
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.

Note
Note that while the course is open to all first year EPFL doctoral students, priority will be given to EDMS students, given that they are mandated to take three of EDMS practical modules. Doctoral students from the Blokesch laboratory cannot take this course. Minimum 2 students, max. 4 students.

Assessment methods
Oral presentation

Resources
Websites
• http://blokesch-lab.epfl.ch/