BIO-603(PA) **Practical - Persat Lab**

Persat Alexandre

Cursus	Sem.	Type
Molecular Life Sciences		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Oral presentation
Workload	30h
Hours	**24**
Courses	8
TP	16
Number of positions	**2**

Frequency

Every year

Remark

3-day Block course, every year in January. To register, contact EDMS Administration

Summary

The student will learn how to: - perform high resolution microscopy of single bacterial cells - perform a motility assay - operate high resolution microscope - analyze image data

Content

In this project, you will perform a typical motility experiment consisting in tracking single bacteria cells as they swim throughout a simple medium. In this configuration, they swim with flagella ultimately generating displacements. You will perform high resolution microscopy to visualizae their displacements. these movies will be analyzed with different computational methods.

Note

Open to max. 2 students. Please note that you are not allowed to inscribe in your own group!

Keywords

bacteria, flagellum, swimming motility, microscopy, confocal microscopy, image analysis.

Assessment methods

Oral presentation