

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
<b>Hours</b>	<b>24</b>
Courses	8
TP	16
<b>Number of positions</b>	<b>2</b>

**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 visualize their displacements. These movies will be analyzed with different computational methods.

**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!**

**Keywords**

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

**Assessment methods**

Oral presentation