BIO-616

Practical - Karthaus Lab

Karthaus Wouter Richard, Krapp Andrea, Stoudmann Candice

Cursus	Sem.	Type
Molecular Life Sciences		Opt.

Language of teaching	English
Credits	1
Session	
Exam	Oral
Workload	30h
Hours	**24**
Courses	6
TP	18
Number of positions	**4**

Frequency

Every year

Remark

Open to max. 4 students. 3-day block course, every year in January. To register, contact EDMS Administration

Summary

Students will learn 1) how organoids can be used in biomedical research 2) How to perform organoid culture 3) How to perform basic genetic manipulations

Content

Organoids are organotypic cell cultures that are rapidly becoming a staple technique in biomedical research. With applications in regenerative medicine, cancer research and basis sciences. In this course, the students will learn the basics of organoid culture and genetic
editing of organoids.

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

Organoids, cancer research, CRISPR/Cas9 editing, Stem cell biology

Learning Outcomes

By the end of the course, the student must be able to:

- Understand applications of organoids and basic techniques

Assessment methods

Oral exam

Resources

Websites

- https://www.epfl.ch/labs/upkarthaus/

Moodle Link

- https://go.epfl.ch/BIO-616