BIO-469

Scientific project design in regenerative medicine and diagnostics

Cursus	Sem.	Type
Bioengineering	MA1, MA3	Opt.
Life Sciences Engineering	MA1	Opt.
Sciences du vivant	MA1, MA3	Opt.

Language of teaching	English
Credits	5
Withdrawal	Unauthorized
Session	Winter
Semester	Fall
Exam	During the semester
Workload	150h
Weeks	14
Hours	**5 weekly**
Courses	2 weekly
Exercises	3 weekly
Number of positions	**52**

It is not allowed to withdraw from this subject after the registration deadline.

Remark

only one registration per student to a scientific thinking course. (pas donné en 2018-19)

Summary

In this course students will be exposed to the fields of regenerative medicine and molecular diagnostics with a specific focus on how scientific developments in these fields are translated to the market through the formation of start-up companies.

Content

Learning Outcomes

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

- Develop a project in the field of regenerative medicine or diagnostics

Transversal skills

- Demonstrate a capacity for creativity.
- Demonstrate the capacity for critical thinking
- Make an oral presentation.
- Write a scientific or technical report.

Teaching methods

The course will consist of one introductory lecture to the fields of regenerative medicine and diagnostics, followed by several presentations by representatives from early-, mid-, and late-stage startup companies.
During the first half of the semester students will form teams and develop project ideas for a potential start-up company. During the second half of the semester each team is expected to prepare a scientific project description, a business plan, and a patent disclosure. At the end of the course, each team will "pitch" their start-up comapny in an oral presentation given to the rest of the class.

Assessment methods

Grades will be based on the quality of the written report and the oral presentation.