BIO-469

Scientific project design in regenerative medicine and diagnostics

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Cursus	Sem.	Type
Bioengineering	MA1, MA3	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

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.