Scientific project design in regenerative medicine and diagnostics

BIO-469 – 12 ET

Teachers:
Prof. Matthias Lütolf
Prof. Sebastian Maerkl

Location: CM 1106

Lecture	Date	Description
1 – Lütolf	25.09	Intro to Regenerative Medicine
2 – Maerkl	02.10	Intro to Molecular Diagnostics
3 – Maerkl	9.10	Rudolf Griss (www.lucentix.ch/)
4 – Lütolf	16.10	**Groups must have been formed** Rajwinder Lehal (http://www.cellestiabiotech.com/)
5 – Maerkl	23.10	Sylke Hoehnel and Nathalie Brandenberg (www.sunbioscience.ch/)
6 – Lütolf & Maerkl	30.10	**Feedback on potential projects**
7 -	06.11	Natalia Giovannini (EPFL Tech Transfer Office)
8 -	13.11	no class
9 – Lütolf	20.11	Ata Tuna and Deborah Heintze (www.lunaphore.ch)
10 -	27.11	no class
11 -	04.12	no class
12 -	11.12	no class
13 -	18.12	**Project Report Due**

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.

Teaching Methods:
The course will consist of one introductory lecture each 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 written project report (for details see below). ~~At the end of the course, each team will "pitch" their start-up company 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~~.

Group Size: 6-8 students per group

Course Deliverables:

1. ~~Project **presentation** (15 minute oral presentation + 5 minute questions)~~
2. Written **report** of max. 15 pages (excluding references) with the following structure:
    a. Executive Summary (max. 1 page)
    b. Introduction and Objectives (max. 2 pages)
    c. Market Analysis (max. 2 pages)
    d. Stakeholders (max. 1 pages)
    e. Background (max. 3 pages)
    f. Product Development Plan (max. 5 pages)
    g. Costs (max. 1 page)
    h. Bibliography