FSK3527 Flow Cytometry 3.0 credits

Flödescytometri

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for FSK3527 valid from Autumn 2019

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Enrolled in a PhD programme at KTH or other universities

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After completion of the course the student shall:

- Have good theoretical knowledge about fluorophores and flow cytometry

- Be able to design experiments for phenotypic characterization of cells by flow cytometry
- Be able to perform basic analysis of flow cytometry data
- Be able to design basic panels for multiple colors

Course contents

The course contains a series of lectures and seminars where subjects like immunology, flow cytometry theory, antibodies and conjugated fluorophores are discussed. Students are expected to take an active role in these discussions. A large part of the education will be compulsory practical sessions performed at the flow cytometry lab at Biofysics, Scilifelab.

Examination

- SEM1 - Seminars, 1.5 credits, grading scale: P, F
- LAB1 - Practical sessions, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Examination is based on active participation in seminars, practical sessions and a written assignment.

Other requirements for final grade

Participation in seminars, practical sessions and approved written assignment.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.