

Research Studies Board

## Flow Cytometry, introductory course, MEFLIN1

### Flödescytometri, introduktionskurs

1 credit

Third cycle

### General information

The course is held as part of the graduate school in stem cell biology's range of courses; but it is also open to other participants, subject to the availability of places. The course is aimed at third cycle students, researchers and technical staff at the Faculty of Medicine who would like an introduction to the basic principles of flow cytometry.

It is a full-time course and corresponds to 3 days of full-time study.

### Language of instruction

English

### Purpose

The course aims to provide theoretical knowledge of flow cytometry and is intended to convey basic understanding to facilitate the planning of flow cytometry experiments.

### Learning outcomes

On completion of the course, the participants shall be able to:

- plan a flow cytometry experiment
- account for the principles behind spillover and relate this to the need to apply compensation
- explain how to combine fluorochromes and select appropriate control samples.

### Course content

The course includes the following elements:

- an introduction to the basic principles of flow cytometry
- common applications of flow cytometry
- fluorochromes, compensation, spillover, control samples
- planning of flow cytometry experiments.

### Course design

Different forms of teaching are used including theoretical lectures, practical demonstrations, theoretical group work and individual discussion forums. The results of these exercises are presented to, and discussed by, the course coordinator and course participants.

## Assessment

Assessment is based on attendance at all sessions, active participation in exercises and discussions, and an individual written assignment, which is to be submitted to, and then discussed by, the group.

## Grades

Pass or Fail.

## Entry requirements

The participants are to be enrolled for third cycle studies at the Faculty of Medicine or equivalent. Researchers with PhDs, technical staff and others with a justified need to take the course may attend the course subject to the availability of places.

## Reading list

Original and overview research articles and online material. Literature references will be given at the start of the course.