

Evaluation of student course HUIMM307 Basic course in flow cytometry Spring 2014

Background:

Nine participants followed the course, 1 postdoc, 1 PhD fellow, 3 master students, 1 post-master student, 1 medical student of the research line (forskerlinjestudent) and 2 technicians. The course was an intensive course over 5 days starting Monday June 16. The course was from 8:30 in the morning until 16 in the afternoon. The course was organized by Silke Appel and Marianne Enger with help from Richard Davies, Sonia Gavasso and Jørn Skavland. Catherine Simpson (Flow Cytometry Specialist at Imperial College London, UK) was the lecturer for two parts of the course, and Einar Kristoffersen and Yen-an Bryceson had 1 lecture each. The plan for the course is given in the appendix. The methods that were included in the course were cell cycle analysis, apoptosis, surface marker staining and quantification of GFP-transfected cells.

Seven of the nine students following the course passed. Two students failed because they did not submit the mandatory written report.

The evaluation was performed as a written evaluation.

Six of the students handed in a written evaluation. The questions are listed in the appendix.

Results from the written evaluation

Question A, B, D, and E were graded from 1 to 6 with 6 being the best (very bad, bad, OK, good, very good, excellent). The average is presented. Question C is given 'as is' and question F was comments.

A. What is your general impression of the course?

Four graded 'excellent', one graded 'very good' and one graded 'good'.

Mean: 5.5

B. How much did you learn at the course?

Three graded 'a lot', three graded 'much'.

Mean: 5

C. Have your expectations been fulfilled with regard to the description of the course?

Five graded 'very relevant', one graded 'relevant'.

D. How were the relevant topics communicated?

Four graded 'excellent', one graded 'very good', one graded 'good'.

Mean: 5.5

E. How did you like the protocols?

Three students graded 'excellent', three students graded 'very good'.

Mean: 5.5

F. Comments/suggestions:

- Thanks to the instructors for all the help
- Protocols should include exactly what we are to do, inclusion of previous steps is not necessary only a bit confusing
- Very good essential course
- Time not sufficient, although the course coordinators tried to teach as much as they could for the available time. Hence 2 weeks may be more appropriate with more hands on experience with accuri and FlowJo
- Teaching was very good
- First of all tusen takk for a nicely course and teach
- Second I think everything was excellent and just say keep going for other students the same you did for us
- Third, good luck for you and wish all the best, thank you again for five days learning

Appendix

1) Timetable

HUIMM307 16.6.-20.6.2014

16.6.:		
08.30-08.45:	Welcome, general instructions – Grupperom 1, BBB	Silke Appel
09.00-11.30:	Introduction to basic flow cytometry (fluorochromes, simple compensation, flow cytometers – fluidics, optics, lasers)	Einar Kristoffersen
12.30-15.00:	Introduction to experiment “cell cycle”	Cathy Simpson
15.15-16.00:	Demonstration at the flow cytometer (Accuri C6)	Marianne Enger
17.6.:		
08.30-11.30:	Experiment “cell cycle”, hands-on-time at the flow cytometer	Cathy Simpson/Marianne Enger/Silke Appel
12.30-14.15:	Analysis of generated data “cell cycle” (hands-on)	Cathy Simpson /Marianne Enger/Silke Appel
14.30-16.00:	Introduction to experiment “apoptosis”	Cathy Simpson
18.6.:		
08.30-11.30:	Experiment “apoptosis”, hands-on-time at the flow cytometer	Cathy Simpson /Marianne Enger/Silke Appel
12.30-14.15:	Analysis of generated data “apoptosis”	Cathy Simpson/ Marianne Enger/Silke Appel
14.30-15.15:	Quantitative analysis of clonal evolution driving relapse of acute myeloid leukaemia escape variants	Håkan Norell
15.15-16.00:	How to present flow cytometry data	Yenan Bryceson
19.6.:		
08.30-09.45:	Introduction to experiment “surface marker staining”	Yenan Bryceson
10.00-10.45:	Antibody titration and compensation	Sonia Gavasso
11.00-15.15:	Experiment “surface marker staining”, hands-on-time at the flow cytometer	Sonia Gavasso /Jørn Skavland/Richard Davies
14.30-16.00:	Analysis of generated data “surface marker staining”	Sonia Gavasso/Jørn Skavland/Richard Davies
20.6.:		
08.30-09.00:	Introduction to experiment “transfected cells”	Marianne Enger
09.00-11.30:	Experiment “transfected cells”, hands-on-time at the flow cytometer	Marianne Enger/Jørn Skavland
12.30-14.15:	Analysis of generated data “transfected cells”	Marianne Enger/Jørn Skavland
14.30-16.00:	Results presentation, general discussion, sum up	Silke Appel, Sonia Gavasso, Jørn Skavland

2) The evaluation form

Basic course in flow cytometry – HUIMM307

This is the first time we had this course, so we would greatly appreciate your feedback so we can improve it.

A. What is your general impression of the course?

very bad --- bad --- OK --- good --- very good --- excellent

B. How much did you learn at the course?

very little --- little --- some --- much --- very much --- a lot

C. Have your expectations been fulfilled with regard to the description of the course?

irrelevant --- relevant --- very relevant

D. How were the relevant topics communicated?

very bad --- bad --- OK --- good --- very good --- excellent

E. How did you like the protocols?

very bad --- bad --- OK --- good --- very good --- excellent

F. Comments/suggestions: (use backside if necessary)