Schedule

Day 1   Tue

9:15 – 13:00 Theory: Introduction to Flow Cytometry

8:45 – 9:15	*Setting up Teams and solving last technical issues*	
9:15 – 9:30	Welcome & course schedule overview	(Claudia)
9:30 – 10:30	Basics of Flow Cytometry	(Claudia/Phil)
10:45 – 11:30	Fluorochromes	(Stephan/Claudia)
11:45 – 12:45	Applications and Specialized Technologies	(Phil/Claudia)

13:00 – 14:00 Lunch break

14:00 – 17:00 Experiment and instrument demonstration

14:00 – 15:00   Interactive session: Build your own flow cytometer (Phil/Claudia)

Moderator: Stephan/Phil

15:00 – 15:15	Overview flow cytometer
15:15 – 15:45	Quality control (CST, standardization,…)
15:45 – 16:00	Discuss staining protocol (L/D marker, serial dilution for titration exp.)
16:00 – 16:15	Record cells stained with L/D marker
16:15 – 16:45	Antibody titration experiment
16:45 – 17:00	Data export, instrument cleaning and shutdown
17:15 – 18:00	**CANCELED** *Introduction to the Cytometry Facility – Load a sample and feel the cytometer*

Day 2 Wed

9:15 – 12:00 Theory: Multicolor Flow Cytometry

8:45 – 9:15	*Setting up Teams and solving last technical issues*	
9:15 – 10:15	Controls in flow cytometry	(Christina/Phil)
10:30 – 11:30	Spectral overlap and Compensation incl. exercise	(Stephan/Claudia)
11:45 – 12:15	Panel design	(Phil/Christina)
12:15 – 13:30	Workshop on panel design	(Phil/Stephan)

Workshop is supported by online tutors (join group1 or group 2 channel as assigned)

13:30 – 14:15 Lunch break

14:15 – 17:00 Instrument demo session

Moderator: Christina / Stephan

14:15 – 14:30	Discuss staining protocol for 6 color T-reg panel
14:30 – 15:15	Acquisition of Comp beads and 6 color T-reg panel
15:30 – 17:15	Time for preparing "Flash talks" with tutors (Sub channel with tutor)

Day 3 Thu

9:15 – 12:30 Theory: Data Analysis

8:45 – 9:00	*Setting up Teams and solving technical issues*	
9:00 – 11:00	Students present "Flash talks"	(Phil/Claudia Christina/Stephan)
11:15 – 12:00	Manual Data analysis and visualization	(Stephan/Claudia)
12:00 – 12:30	Outlook on Advanced Data Analysis	(Stephan/Claudia)

12:30 – 13:15 Lunch break

13:15 – 16:15 Data analysis practical part (Tutors: Stephan, Mario, Claudia, Christina, Christoph)
All students use a FlowJo demo license installed on their personal computer or Citrix solution
13:15 – 14:45 Calculate stain index from titration experiment
14:45 – 16:15 Analyze Treg panel

16:30 – 17:00 Evaluation and Exam (online)   (Claudia)

17:00 – 17:15 Final wrap up and Questions   (Claudia)