Biotech 23: Flow Cytometry: Principles and Methods

Course Name: Flow Cytometry: Principles and Methods
Time: 9:00am – 5:00pm

Tuesday

Time	Session	Instructor
8:45am – 9:00am	**Welcome**	Rafael Villasmil
9:00am – 10:00am Bldg. 60 Rm 162	**Introduction to Single Cell Analysis**	Rafael Villasmil
10:30am – 10:40am	**Break**	
10:40am – 12:00pm Bldg. 60 Rm 162	**Flow Cytometry Experiment Design**	Rafael Villasmil
12:00pm – 1:00pm	**Lunch**	
1:00pm – 2:45pm Bldg. 60 Rm 162	**High Dimensional Flow Cytometry** **Tools for Immunophenotyping and Beyond**	Kathy McKinnon
2:45pm – 3:00pm	**Break**	
3:00pm – 5:00pm Bldg. 60 Rm 162	**Introduction to Imaging Flow Cytometry**	Luminex

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Wednesday

Time/Location	Group A NHLBI Flow Cytometry Core, Bldg 10 Rm 8C104	Group B NCI CCR VB FACS Core Facility Bldg 41, Rm C310	Group C NEI Flow Cytometry Core, Bldg. 10, Rm. 10N112
9:00am – 12pm	**Demonstration of DIVA software and how to set up an experiment (15 color_immunophenotyping), automated compensation using DIVA on BD, SYMPHONY**; NHLBI Core Bldg. 10 Room 8C104 (Pradeep Dagur)	**Demonstration of DIVA software and how to set up an experiment (15 color_immunophenotyping), automated compensation using DIVA on BD, SYMPHONY**; Bldg. 41, Room C310 (Kathy McKinnon)	**Demonstration of software and how to set up an experiment (15 color_immunophenotyping), automated compensation on CYTOFLEX-LX**; NEI Core Bldg 10 Room 10N112 (Matthew Goff and Rafael Villasmil)
12:15pm – 1:15pm	**Lunch**		
1:15pm – 3:15pm Bldg. 60 Rm 162	**Introduction to Bead based multiplexed Flow cytometry assays and Ultra- sensitive protein assays**	Ankit Saxena	
3:15pm – 4:45pm Bldg 60 / Room 162	**Cell sorting theory and Instrumentation**	Kasey Rogers	

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Thursday

Time/Location	Group A	Group B	Group C
9:30am – 11:30am Bldg 60 / Rm 060/Rm 134 or TBD	**MACSQuant Analyzer-Immunophenotyping;** (AnnMarie Torres)	**Cell Sorter (Bio-Rad S3);** (Richard Sblendorio)	**CYTOFELX DNA Content Analysis Cell tracking and Proliferation;** (Alek Keselman)
11:30am – 12:30pm	**Lunch**		
12:30pm – 2:30pm Bldg 60 / Rm 060/ Rm 134 or TBD	**CYTOFELX DNA Content Analysis Cell tracking and Proliferation;** (Alek Keselman)	**MACSQuant Analyzer-Immunophenotyping;** (AnnMarie Torres)	**Cell Sorter (Bio-Rad S3);** (Richard Sblendorio)
2:30pm – 2:45pm	**Break**		
2:45pm – 4:45pm Bldg 60 / Rm 060/ Rm 134 or TBD	**Cell Sorter (Bio-Rad S3);** (Richard Sblendorio)	**CYTOFELX DNA Content Analysis Cell tracking and Proliferation;** (Alek Keselman)	**MACSQuant Analyzer-Immunophenotyping;** (AnnMarie Torres)

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Friday

9:00am – 12:00pm Bldg 60 / Rm 162	**Hands-On Software training: Flow Cytometry data Analysis using FlowJo**	John Quinn
12:00pm – 1:00pm	**Lunch**	
1:00pm – 3:45pm Bldg 60 / Rm 162	**Hands-On Software training: Flow Cytometry data Analysis using FCS express**	Sarah Schuett
3:45pm – 4:00pm	**Break**	
4:00pm – 4:45pm Bldg 60 / Rm 162	**Future of Flow Cytometry; Survival tips for the field; Open Q/A**	Rafael Villasmil