Biotech 23: Flow Cytometry: Principles and Methods

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

Tuesday

8:45am – 9:00am	**Welcome**	Rafael Villasmil
9:00am – 10:30am 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	**Exploring the Immunome in Translational Research using Flow cytometry, where to start?**	Angélique Biancotto
2:45pm – 3:00pm	**Break**	
3:00pm – 5:00pm Bldg. 60 Rm 162	**Introduction to Imaging Flow Cytometry**	Amal El-Manhouh

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Wednesday

Time/Location	Group A and Group B1	Group B2 and Group C
9:00am – 10:45am Bldg 60 Rm 060 Bldg 10	**Performing QC and demo of DIVA software on BD LSR 2; NHLBI** Core Bldg 10 Room 8C104 (Pradeep Dagur)	**Performing QC and demo of DIVA software on BD LSR 2** Core Facility Visit CHI Bldg. 10 Room 7N115 (Angélique Biancotto)
10:45am – 12:30pm Bldg 60 Rm 060 Bldg 10	**Demonstration of DIVA software and how to set up an experiment (7 color_immunophenotyping), automated compensation using DIVA on BD LSR 2 CHI-**Bldg. 10 Room 7N115 (Angélique Biancotto)	**Demonstration of DIVA software and how to set up an experiment (7 color_immunophenotyping), automated compensation using DIVA on LSR 2**; NHLBI Core Bldg 10 Room 8C104 (Pradeep Dagur)
12:30pm – 1:30pm	**Lunch**	
1:30pm – 3:30pm Bldg. 60 Rm 162	**Introduction to Bead based multiplexed Flow cytometry assays and Ultra-sensitive protein assays**	Ankit Saxena (NHLBI) and Amit Joshi (Quanterix)
3:30pm – 5:00pm Bldg 60 / Room 162	**Cell sorting theory and Instrumentation**	Matthew Goff

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Thursday

Time/Location	Group A	Group B	Group C
9:30am – 11:30am Bldg 60 / Rm 060	MACSQuant Analyzer-Immunophenotyping (Kevin Beck)	Cell Sorter (Bio-Rad S3); (Matthew Goff)	Accuri – DNA Content Analysis Cell tracking and Proliferation (Kelly Hudspeth / Yijun Su)
11:30am – 12:30pm	**Lunch**		
12:30pm – 2:30pm Bldg 60 / Rm 060	Accuri – DNA Content Analysis Cell tracking and Proliferation (Kelly Hudspeth /Yijun Su)	MACSQuant Analyzer-Immunophenotyping (Kevin Beck)	Cell Sorter (Bio-Rad S3); (Matthew Goff)
2:30pm – 2:45pm	**Break**		
2:45pm – 4:45pm Bldg 60 / Rm 060	Cell Sorter (Bio-Rad S3); (Matthew Goff)	Accuri – DNA Content Analysis Cell tracking and Proliferation (Kelly Hudspeth /Yijun Su)	MACSQuant Analyzer-Immunophenotyping (Kevin Beck)

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Friday

9:00am – 12:00pm Bldg 60 / Rm 060	**Hands-On Software training: Flow Cytometry data Analysis using FlowJo**	Flow Jo
12:00pm – 1:00pm	**Lunch**	
1:00pm – 4pm Bldg 60 / Rm 060	**Hands-On Software training: Flow Cytometry data Analysis using FCS express**	Sean Burke
4pm – 4:15pm	**Break**	
4:15pm – 5:00pm Bldg 60 / Rm 060	**Future of Flow Cytometry; Survival tips for the field; Open Q/A**	Rafael Villasmil