

Duke CFAR Workshop on "Measuring Antigen Specific T-cells using Polychromatic Flow Cytometry"

October 13-17, 2014

Pre-Workshop Material	
Sign SOPs as read and understood (required pre-requisite)	
Sign Waivers (required pre-requisite)	
Lab: Pre-Examination Data Analysis	
MONDAY (Oct 13th, 2014)	
8:15 - 8:30	Breakfast
	Verify Pre-Workshop Materials
8:30 - 9:00	Welcome & Introductions
	Review Agenda
9:00 - 10:00	LECTURE: ICS Protocol - overview
10:00 - 10:30	LECTURE: LSRII Startup/Shutdown/Calibration (Daily QC)
10:30 - 12:30	LAB 1: LSRII Calibration (existing template) - Daily QC
12:30 - 1:00	WORKING LUNCH
1:00 - 1:30	LECTURE/VIDEO: ICS Protocol - PBMC thawing procedures
1:30 - 3:30	LAB 2: ICS Assay - PBMC Thaw, Overnight Rest @ 37°C, Label Tubes
	LAB 3: LSRII Calibration - Analyze Daily QC
3:30 - 5:00	LECTURE: Instrument Qualification
TUESDAY (Oct 14th, 2014)	
8:15 - 8:30	Breakfast
	Quiz
8:30 - 9:30	LECTURE: ICS Assay - Stimulation Overview
9:30 - 12:00	LAB 4: ICS Assay - PBMC Stimulation
	LAB 5: LSRII Validation - Data Analysis for 1 PMT
12:00 - 1:00	WORKING LUNCH
1:00 - 2:00	LECTURE: Standards & Data Annotation (Mike Hulsey, BD Biosciences)
2:00 - 2:30	LECTURE: ICS Assay - Staining Overview
2:30 - 3:00	LECTURE: ICS Assay - Acquisition Overview
3:00 - 3:30	LECTURE: Statistical Considerations (Dr. Cliburn Chan, Duke)
3:30 - 5:30	LAB 6: Create acquisition Tube Lists
	LAB 7: Create FACSDiva Acquisition Templates
	LAB 8: ICS Assay - Overnight Rest at 4°C
WEDNESDAY (Oct 15th, 2014)	
8:15 - 8:30	Breakfast
8:30 - 12:30	LAB 9: ICS Assay - PBMC Staining
	LAB 10: LSRII Calibration (existing template) - Daily QC
12:30 - 1:30	WORKING LUNCH
	LECTURE: Instrument Troubleshooting
1:30 - 6:00	LAB 11: Instrument Setup for Acquisition
	LAB 12: Sample Acquisition
	LAB 13: Analyze ICS data files using preferred lab gating strategy
THURSDAY (Oct 16th, 2014)	
8:15 - 8:30	Breakfast
8:30 - 10:00	LECTURE: Compensation & Analysis
10:00 - 12:00	LAB 14: ICS Compensation & Analysis- Using Data Acquired on Wednesday
12:00 - 1:00	WORKING LUNCH
	Results: Data standards (Scott White, Duke)
1:00 - 2:00	LECTURE: Proficiency Testing (Dr. Sylvia Janetski, CVC)
2:00 - 5:00	LAB 15: ICS Analysis - Using Data Acquired on Wednesday
FRIDAY (Oct 17th, 2014)	
8:15 - 8:30	Breakfast
8:30 - 9:30	LECTURE: Panel design, Reagent qualifications, and Panel Modification
9:30 - 12:00	LAB 16: ICS Analysis - Using Data Acquired on Wednesday
	LAB 17: Analyze titration data files to generate titration curves & SO Profiles
12:00 - 1:00	WORKING LUNCH
	LECTURE: Operator Training
1:00 - 5:00	LAB 18: continuation of data analysis & Q & A