Pre-event Nov 27: Methods in Immunology Workshops

14:30-15:15 Tips and tricks for conventional and spectral flow cytometry: How to optimize workflows to maximize biological resolution.

Thermo Fisher Scientific: Andrea Canto Méndez,

Abstract: Ready to Flow Smarter, Not Harder? Discover the Secrets of Spectral Success!

Spectral flow cytometry is gaining in popularity due to the potential for larger panels, but the transition from conventional cytometry can appear daunting. In this workshop, we will explore the transition from conventional to spectral cytometry and how to optimize workflows to avoid pain points. We will also dig deeper into aspects of flow cytometry that are more impactful for spectral flow cytometry, including fluorophore selection, controls, blocking buffers, and panel quality evaluation metrics. This presentation will cover topics for flow cytometrists that have experience with conventional flow cytometry as well as those that are just beginning with spectral flow cytometry.

Join us for this exclusive, expert-led session where we'll tackle the challenges head-on and share insider tips to streamline your workflow and boost your confidence with spectral panels!

Learning Objectives:

1. *Pro tips for fluorophore selection— match brightness to antigen density*
2. *Magic of blocking buffers— what they block and why it matters*
3. *Smart strategies for picking the right controls and measuring panel performance*
4. *How to avoid common pitfalls and pain points in your workflow*
5. *Online Demo of designing flow panel using panel builder tool.*

15:30-16:30 Navigating Single-Cell Technology Choices: Microwell or Droplet-Based?

BD: Jouni Rantanen and Jens Fleischer

Part 1: Comparison Rhapsody – 10X

Selecting the right single-cell analysis technology can be challenging given the variety of options available today. In this session, we will explore BD Rhapsody's microwell-based platform and compare it with the droplet-based approach from 10x Genomics. We will highlight key technical differences in cell isolation methods and discuss how these distinctions translate into advantages for different assay types and research applications.

Part 2: Navigating Complexity: High-Dimensional Flow Cytometry Made Simple

High-dimensional flow cytometry opens the door to unprecedented insights into complex immune profiles, but the sheer volume and complexity of datasets can be overwhelming. This workshop, "*Navigating Complexity: High-Dimensional Flow Cytometry Made Simple*" will guide participants through practical strategies for managing, analyzing, and visualizing spectral and high-parameter datasets using FlowJo.

16:45-17:30 CARving the way - Solutions for CAR Engineered Cell Characterization

Bionordica

Cell Signaling Technology® (CST) is dedicated to providing the world's highest quality research products. Our mission is to empower the global scientific community and accelerate biological understanding by offering you tools you can trust.

During this talk, we will present CST's innovative solutions designed to accelerate research and development in the CAR therapeutic research field. We will highlight the utility of CST's recombinant anti-CAR linker antibodies, which target the ubiquitous peptide linker sequence in scFv-based CARs. These purpose-built reagents offer a universal, antigen-independent method to confirm CAR expression by flow cytometry, Immunohistochemistry (IHC), Western blot, and Simple Western, eliminating the time and cost associated with developing unique anti-idiotype antibodies for every CAR construct.

We will demonstrate how integrating CST's validated reagents and application-specific kits simplifies each CAR cell characterization workflow, whether the goal is to detect, analyze, quantitate or purify CAR-engineered cells, or study them in a translational histology context.

17:30 PIZZA and fun talks with colleagues