

Commercial Tutorial:

Standardizing Flow Cytometry:

Advances in Antibody Preparation and Automation for Reliable Immune Monitoring

June 4
2025

Room 2A

12:15PM-1:15PM

Session Highlights:

Understand the drivers of the reproducibility crisis in flow cytometry and its impact on clinical and research workflows.

- See practical solutions for automating sample prep and antibody staining—reducing variability and hands-on time.
- Learn how CLSI H62 and NIST standards support assay validation and harmonization across labs.
- Hear cross-sector insights from academic, regulatory, and industry leaders on automation adoption.
- Join a 20-minute panel Q&A focused on implementation strategies and standardization best practices.

Expert Insights From:

- Dr. Holden Maecker (Stanford University)
- Dr. Lili Wang (NIST)
- Basile Siewe (Curiox Biosystems)
- Moderator: Dr. Virginia Litwin (Eurofins)

Session Abstract

As flow cytometry continues to be central to both clinical and research immunophenotyping, the need for robust standardization and practical automation is more critical than ever.

This workshop will address the key challenges in reproducibility, the automation of antibody mastermix prep, and standardization efforts that can scale across laboratories.

We will explore advances in sample preparation automation—particularly centrifuge-less workflows—and the real-world pitfalls labs encounter during assay transition or system implementation.

The session concludes with a panel discussion and audience Q&A featuring all speakers—diving into real-world applications of these technologies in clinical research and regulated environments.