



FLUIDIGM®

## Please join us at the 8th Annual Fluidigm Mass Cytometry Summit

June 20–21, 2019  
Pinnacle Hotel Harbourfront  
Vancouver, BC, Canada

### The Program

We are excited to be extending the Summit to a two-day format this year to provide additional time for more presentations, special-topic breakout sessions and networking.

Attendees will hear talks on new scientific findings from researchers using mass cytometry as well as advances in Imaging Mass Cytometry™ (IMC™) and CyTOF® applications.

New this year are two special-topic breakout sessions: a panel discussion for core directors and presentations and discussion on best practices from experts.

**Registration is free but space is limited and filling up fast!**

Register at [fluidigm.com/summit2019](http://fluidigm.com/summit2019)

We strongly suggest that you book your room in Vancouver as soon as possible to avoid conflicts with two other Vancouver events: the NHL Entry Draft, June 21–22, and CYTO® 2019, June 22–26.

Below is a listing of the current sessions, topics and confirmed speakers.

## Agenda

Thursday, June 20

7:45–8:30 am **Registration and Continental Breakfast**

8:30 am–12:00 pm **High-Dimensional Immunology**

Getting Breadth, Depth and Location with Mass Cytometry and IMC

- **Petter Brodin, MD, PhD**, Karolinska University Hospital  
Systems-level immunomonitoring in human subjects
- **James Wing, PhD**, Osaka University  
Exploring regulatory T cell function and phenotype with mass cytometry
- **Thomas Ashhurst, BSc**, The University of Sydney and Centenary Institute  
Profiling immune infiltration in the murine central nervous system using suspension and tissue cytometry
- **Melissa Berrien-Elliott, PhD**, Washington University School of Medicine  
[Title to come]
- **Michelle Poulin, PhD**, Fluidigm  
The new standard in immune profiling: the Maxpar® Direct™ Immune Profiling System

1:15–3:00 pm

### **Parallel Session A**

**Building a Strong Core: Panel Discussion**

Experienced core directors share their expertise and perspectives on offering mass cytometry as a service, followed by discussion and Q&A.

- **Karen Helm, MT (ASCP)**, University of Colorado Anschutz Medical Campus
- **Kevin Pavelko, PhD**, Mayo Clinic
- **Vinko Tosevski, PhD**, Roche Innovation Center Zurich
- **Jared Burks, PhD**, University of Texas MD Anderson Cancer Center

### **Parallel Session B**

**Succeeding with CyTOF: It's All in Your Prep**

Panel design and testing; sample preparation for blood, tissues and tumors; barcoding methods; and phosphoprotein analysis

- **Emmanuelle Stebe, MSc**, Fluidigm  
Panel design: concepts and considerations
- **Michael Leipold, PhD**, Stanford University  
Sample staining and processing for large studies
- **Caroline E. Roe, MSc**, Vanderbilt University  
Primary human cell phospho-flow mass cytometry data generation and analysis
- **Justine Sinnaeve, PhD Candidate**, Vanderbilt University  
Solid tumor and tissue mass cytometry: tips and tricks

3:30–5:00 pm

### **Panel Discussion: Best Practices for Mass Cytometry in Translational and Clinical Research**

Panelists share their experience and advice on integrating mass cytometry into clinical and translational research, followed by discussion and Q&A.

- **Kara L. Davis, DO**, Stanford University
- **Juan J. Garcia Vallejo, MD, PhD, MBA**, VU University Medical Center Amsterdam
- **Diana Bonilla Escobar, PhD**, University of Texas MD Anderson Cancer Center
- **Petter Brodin, MD, PhD**, Karolinska University Hospital

5:30–11:00 pm

**Dinner Reception and Entertainment: Heavy Metals Rock**

Friday, June 21

7:30–8:15 am

**Registration and Continental Breakfast**

8:15–11:30 am

**CyTOF Powered Insights on Disease**

Advancing Our Understanding with Mass Cytometry and IMC

- **Aida Meghraoui-Kheddar, PhD, PharmD**, University of Sorbonne  
Identification of a sepsis-specific myeloid cell signature with mass cytometry
- **Gregory Behbehani, MD, PhD**, The Ohio State University  
[Title to come]
- **Hartland Jackson, PhD**, University of Zurich  
The single-cell pathology landscape of breast cancer

**Novel Applications for Mass Cytometry**

- **Adeeb Rahman, PhD**, Icahn School of Medicine at Mount Sinai  
ProCodes: a novel barcoding system to enable single-cell CRISPR screens by mass cytometry
- **Alex Kuo, PhD**, Stanford University  
Single-cell epigenetics: studying histone modifications one cell at a time
- **Mark Nitz, PhD**, University of Toronto  
Monitoring protein synthesis with TePhe, a tellurium-containing phenylalanine mimic
- **Rob Ellis, PhD**, Fluidigm  
Product application updates for Helios™ and the Hyperion™ Imaging System

12:30–2:30 pm

**Data Analysis Workshops**

Beginner and advanced sessions covering solutions for cell suspension analysis

- **Eric Clambey, PhD**, University of Colorado Anschutz Medical Campus  
A beginner's guide to analyzing and visualizing mass cytometry data
- **Geoff Kraker, BSc**, Cytobank  
Putting the pieces together: analysis pipelines in Cytobank
- **Jonathon M. Irish, PhD**, Vanderbilt University  
Coping with analysis FOMO: finding novel, clinically significant cells in human tissue studies
- **Vinko Tosevski, PhD**, Roche Innovation Center Zurich  
Computational data analysis tools for everyday use: supporting experimental design and optimization
- **Beth Hill, PhD**, Verity Software House  
Maxpar Pathsetter™ and probability state modeling
- **El-ad David Amir, PhD**, Astrolabe Diagnostics  
Easy CyTOF analysis using the Astrolabe Cytometry Platform

3:00 pm

**Summit Concludes**

## Register

A light breakfast, coffee breaks and lunch will be provided on both days.

Registration is free, but space is limited. Reserve your spot now.

**We look forward to seeing you at the 8th Annual Fluidigm Mass Cytometry Summit!**

—The Fluidigm Team

**[fluidigm.com/summit2019](https://fluidigm.com/summit2019)**

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