# 9th Annual Fluidigm Mass Cytometry Summit

On Demand | Virtual event

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| **Welcome and Opening Remarks | Auditorium** | Welcome and Opening Remarks | Chris Linthwaite  
President and CEO, Fluidigm |
|                    |          | Andrew Quong, PhD  
Chief Science Officer, Fluidigm |
|                    |          | Alex Cherkassky  
Senior Director, Mass Cytometry Franchise Head, Fluidigm |
| **Breakout: New Applications for CyTOF Systems and Imaging Mass Cytometry from Fluidigm | Meeting Room 1** | Live-cell barcoding with Cd-CD45 antibodies | Michelle Poulin, PhD  
Manager, Proteomics Field Applications |
|                    |          | Creating CyTOF® panels just got even easier: Maxpar Panel Designer v2.0 | Kevin Brown, PhD  
Field Applications Specialist |
|                    |          | Drop-in expansion panels for the Maxpar® Direct™ Immune Profiling Assay™ | Noah Saederup, PhD  
Senior Product Manager, Maxpar Reagents |
|                    |          | Insights into the tumor microenvironment: High-dimensional single-cell spatial analysis using the Hyperion™ Imaging System | Andrew Quong, PhD  
Chief Science Officer, Fluidigm |
| **Mass Cytometry in Translational Research: Session I | Auditorium** | Single-cell mass cytometry identifies mechanisms of resistance to immunotherapy in AML | Shelley Herbrich, PhD  
Department of Leukemia, University of Texas MD Anderson Cancer Center |
|                    |          | Understanding CD19-negative relapse following CAR T therapies in acute lymphoblastic leukemia | Kara Davis, DO  
Maternal & Child Health Research Institute, Stanford University |
|                    |          | Mass cytometry reveals distinct immune signatures marking progression from mild to severe COVID-19 | Bernd Bodenmiller, PhD  
Professor for Quantitative Biology, Department of Quantitative Biomedicine, University of Zurich |
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| Meet the Expert | **Bernd Bodenmiller, PhD**  
Professor for Quantitative Biology, Department of Quantitative Biomedicine, University of Zurich |
| Meet the Expert | **Patrick Reeves, PhD**  
Instructor in Medicine, Harvard Medical School, Team Leader, Vaccine and Immunotherapy Center, Massachusetts General Hospital |
| Meet the Expert | **Rebecca Ihrie, PhD**  
Associate Professor of Cell and Developmental Biology, Vanderbilt University |
| **Keynotes | Auditorium**                                                                 |                                                                                                                                 |
| Uncovering immunological mechanisms of protection from infection and vaccination in humans | **Marcelo Sztein, MD**  
Professor of Pediatrics, Associate Director for Basic and Translational Research, Immunology Group Leader, Center for Vaccine Development and Global Health, University of Maryland |
| Linking cellular location and patient prognosis in brain tumors | **Rebecca Ihrie, PhD**  
Associate Professor of Cell and Developmental Biology, Vanderbilt University |
| **Panel Discussion: Perspectives on Getting Started with IMC | Meeting Room 1**                                                                  |                                                                                                                                 |
| Panel Discussion | **Philip Hobson, PhD**  
Deputy Head of Flow Cytometry, The Francis Crick Institute  
**Emily Mace, PhD**  
Assistant Professor of Pediatric Immunology, Columbia University |
| **New Insights Gained with Imaging Mass Cytometry | Meeting Room 1**                                                                  |                                                                                                                                 |
| Characterizing distinctions in DARC-related Tumor immune MicroEnvironment (DARC TiME) | **Melissa Davis, PhD**  
Assistant Professor of Cell and Developmental Biology, Weill Cornell Medical College |
| Exploring the immune tumor microenvironment of hepatocellular carcinoma with Imaging Mass Cytometry” | **Won Jin Ho, MD**  
Assistant Professor of Oncology, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins |
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<td>**Practical Mass Cytometry</td>
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| On measuring photons and ions: Impact on panel design, signal detection and data quality | Tim Bushnell, PhD, MBA  
Associate Professor, Department of Pediatrics,  
Director, Shared Resource Laboratories, University of Rochester |
| Monitoring immunotherapy with a mass cytometry receptor occupancy assay | Gerd Haga Bringeland, MD, PhD  
Resident, Neurology,  
Haukeland University Hospital, Bergen |
| Process development and clinical assessment of CAR T cell products | Greg Hopkins, BS  
Senior Associate Scientist, bluebird bio |
| **Breakout: Setting Yourself Up for Core Success – A Panel Discussion | Meeting Room 1**                                                      |                                                                          |
| Panel Discussion                                             | Jared Burks, PhD  
Associate Professor, Co-Director, Flow Cytometry and Cellular Imaging Core Facility, University of Texas MD Anderson Cancer Center |
|                                                             | Matt Cochran, MS  
Technical Director, URMC Flow Cytometry Shared Resource Laboratory, University of Rochester |
|                                                             | Emily Thrash, PhD  
Scientist II, Dana-Farber Cancer Institute |
|                                                             | Akil Merchant, MD  
Associate Professor and Director of Imaging Mass Cytometry Shared Resource, Cedars-Sinai Medical Center |
| **Analytic Options for Mass Cytometry Data | Meeting Room 1**                                                      |                                                                          |
| From data to insight: Explore the full potential of high dimensional data by leveraging machine learning algorithms | Qianjun Zhang, MS  
Staff Applications Scientist, Cytobank, Beckman Coulter |
| Utilizing FCS Express™ for high-dimensional data reduction with CyTOF: working with t-SNE and new tools on the horizon | Sean Burke, MS  
Director, Research Marketing and Business Development, De Novo Software™ |
| Maxpar Pathsetter™: a comprehensive, automated, and flexible analysis for your Maxpar assay and beyond | Beth Hill, PhD  
Applications Specialist, Verity Software House |
| Visiopharm’s live fireside chat on IMC™ analysis: an engaging, open, vendor-neutral discussion with two IMC analysis leaders | Jared K. Burks, PhD  
Associate Professor, Co-Director, Flow Cytometry and Cellular Imaging Core Facility, University of Texas MD Anderson Cancer Center  
Trevor McKee, PhD  
Image Analysis Manager, STTARR Innovation Centre  
Regan Baird  
Regional Director, Visiopharm® |
| Introduction to Indica Labs and HALO™ IMC analysis            | Donald Allen  
Senior Application Scientist, Indica Labs |
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| Understanding the immunosuppressive functions of cancer-associated fibroblasts in lung cancer | Handan Xiang, PhD  
Senior Scientist, Merck Research Laboratories |
| Media smooth muscle cells reprogramming into mesenchymal stem cells drives aortic aneurysm formation | Pei-Yu Chen, PhD  
Research Scientist, Yale University |
| Unraveling the spatial distancing between immune compartments of COVID-19 tissues using IMC | Hiranmayi Ravichandran, MS  
Mass Cytometry Specialist, Weill Cornell Medical College |
| B cells and tertiary lymphoid structures promote immunotherapy response           | Rafet Basar, MD  
Assistant Professor, Stem Cell Transplantation and Cellular Therapy, University of Texas MD Anderson Cancer Center |
| HLA-E and NKG2A as a novel immune checkpoint axis in bladder cancer                | Amir Horowitz, PhD  
Assistant Professor of Oncological Sciences, Precision Immunology Institute/Tisch Cancer Institute, Icahn School of Medicine at Mount Sinai |

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| Interrogating spatially resolved biomarkers in the tissue microenvironment with quantitative image analysis on Imaging Mass Cytometry datasets | Trevor McKee, PhD  
Image Analysis Manager, STTARR Innovation Centre |
| Developing an analysis pipeline for mass cytometry studies                        | El-ad David Amir, PhD  
Chief Executive Officer, Astrolabe Diagnostics |
| FAUST: A new interpretable machine learning approach for automated gating         | Raphael Gottardo, PhD  
J. Orin Edson Foundation Endowed Chair, Scientific Director, Translational Data Science Integrated Research Center, Fred Hutchinson Cancer Research Center |

labroots.com/s/masscytometry-summit
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