FLUIDIGM®

9th Annual Fluidigm Mass Cytometry Summit

September 23, 2020 | 6:00 am–8:00 pm PT

Virtual event

Time (PT)	Presentation Title	Speaker
Welcome and Opening Remarks | Auditorium		
6:00 am	Welcome and Opening Remarks	**Chris Linthwaite** President and CEO, Fluidigm **Andrew Quong, PhD** Chief Science Officer, Fluidigm **Alex Cherkassky, PhD** Senior Director, Product Management, Fluidigm
Breakout: New Applications for CyTOF Systems and Imaging Mass Cytometry from Fluidigm Meeting Room 1		
6:05–6:30 am	Live-cell barcoding with Cd-CD45 antibodies	**Michelle Poulin, PhD** Manager, Proteomics Field Applications
6:30–7:00 am	Creating CyTOF® panels just got even easier: Maxpar Panel Designer v2.0	**Kevin Brown, PhD** Field Applications Specialist
7:00–7:30 am	Drop-in expansion panels for the Maxpar® Direct™ Immune Profiling Assay™	**Noah Saederup, PhD** Senior Product Manager, Maxpar Reagents
7:30–8:00 am	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		
6:30–7:00 am	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
7:00–7:30 am	Understanding CD19-negative relapse following CAR T therapies in acute lymphoblastic leukemia	**Kara Davis, DO** Maternal & Child Health Research Institute, Stanford University
7:30–8:00 am	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 | Meeting Room 2		
7:00–7:30 am	Meet the Expert	**Bernd Bodenmiller, PhD** Professor for Quantitative Biology, Department of Quantitative Biomedicine, University of Zurich
10:00–10:30 am	Meet the Expert	**Patrick Reeves, PhD** Instructor in Medicine, Harvard Medical School, Team Leader, Vaccine and Immunotherapy Center, Massachusetts General Hospital
11:00–11:30 am	Meet the Expert	**Rebecca Ihrie, PhD** Associate Professor of Cell and Developmental Biology, Vanderbilt University
Keynotes | Auditorium		
8:00–9:00 am	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
9:00–10:00 am	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		
10:00–10:30 am	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		
10:30–11:00 am	Characterizing distinctions in DARC-related Tumor immune MicroEnvironment (DARC TiME)	**Melissa Davis, PhD** Assistant Professor of Cell and Developmental Biology, Weill Cornell Medical College
11:00–11:30 am	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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Practical Mass Cytometry | Auditorium		
10:30–11:00 am	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
11:00–11:30 am	Monitoring immunotherapy with a mass cytometry receptor occupancy assay	**Gerd Haga Bringeland, MD, PhD** Resident, Neurology, Haukeland University Hospital, Bergen
11:30 am–12:00 pm	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		
11:30 am–1:00 pm	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		
1:30–2:00 pm	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
2:00–2:30 pm	Utilizing FCS Express™ for high-dimensional data reduction with CyTOF®: working with t-SNE and new tools on the horizon	**Sean Burke, MS** Senior Associate Scientist, bluebird bio
2:30–3:00 pm	Maxpar Pathsetter: a comprehensive, automated, and flexible analysis for your Maxpar Assay and beyond	**Beth Hill, PhD** Applications Specialist, Verity Software House
3:00–3:30 pm	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** Senior Data Scientist, STTARR Core Facility, University Health Network
3:30–4:00 pm	Introduction to Indica Labs and HALO IMC Analysis	**Donald Allen** Senior Application Scientist, Indica Labs

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Mass Cytometry in Translational Research: Session II | Meeting Room 2		
12:00–12:30 pm	Understanding the immunosuppressive functions of cancer-associated fibroblasts in lung cancer	**Handan Xiang, PhD** Senior Scientist, Merck Research Laboratories
12:30–1:00 pm	Media smooth muscle cells reprogramming into mesenchymal stem cells drives aortic aneurysm formation	**Pei-Yu Chen, PhD** Research Scientist, Yale University
1:00–1:30 pm	Unraveling the spatial distancing between immune compartments of COVID-19 tissues using IMC™	**Hiranmayi Ravichandran, MS** Mass Cytometry Specialist, Weill Cornell Medical College
1:30–2:00 pm	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
2:00–2:30 pm	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
Tutorials: Data Analytics | Auditorium		
2:30–3:00 pm	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
3:00–3:30 pm	Developing an analysis pipeline for mass cytometry studies	**El-ad David Amir, PhD** Chief Executive Officer, Astrolabe Diagnostics
3:30–4:00 pm	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
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4:00–4:30 pm	Live-cell barcoding with Cd-CD45 antibodies	**Michelle Poulin, PhD** Manager, Proteomics Field Applications
4:30–5:00 pm	Creating CyTOF panels just got even easier: Maxpar Panel Designer v2.0	**Kevin Brown, PhD** Field Applications Specialist
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Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR) presents current research | Meeting Room 1		
7:00–7:30 pm	New insights on the pathogenesis of COVID-19	**Olaf Rötzschke, PhD** Senior Principal Investigator, Head of Mass Cytometry and Multiplex Analysis of Proteins (MAP) Platforms, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR)
7:30–8:00 pm	Imaging Mass Cytometry Tumor Microenvironment Applications	**Akhila Balachander, PhD** Manager, Imaging Platform, Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR)

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