9th Annual Fluidigm Mass Cytometry Summit

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

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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<th>Time (PT)</th>
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| 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 |
| 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 |
| 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 |
| 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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| 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                                  |
| 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 |
| 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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| 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**

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| 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 |

**Breakout: New Applications for CyTOF Systems and Imaging Mass Cytometry from Fluidigm | Meeting Room 1**

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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 |
| 5:00–5:30 pm | Drop-in expansion panels for the Maxpar Direct Immune Profiling Assay                                    | **Noah Saederup, PhD**  
Senior Product Manager, Maxpar Reagents |
| 5:30–6:00 pm | Insights into the tumor microenvironment: High-dimensional single-cell spatial analysis using the Hyperion Imaging System | **Andrew Quong, PhD**  
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| 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)                                             |