FLUIDIGM®

IMC™ SUMMIT
UNCOVERING SPATIAL BIOLOGY

Join the IMC Summit on October 21, 2021

Learn how you can gain research insights by deciphering and uncovering the complex secrets of spatial biology using Imaging Mass Cytometry.

Whether you are just starting to think about using proteomic approaches to deeply interrogate the tissue microenvironment, are performing your first high-multiplex experiments or are a veteran user of Imaging Mass Cytometry™ (IMC), this event has something for you. We are excited to share the agenda of what is sure to be an inspiring and thought-provoking half a day.

October is Breast Cancer Awareness Month, and we'll kick off with two excellent presentations on the use of IMC in research related to breast cancer. To support work aimed at combating this disease, Fluidigm will make a $5 donation for every IMC Summit attendee,* with the proceeds going to charities selected by our two speakers.

Here's the exciting agenda! Register today at **fluidigm.com/imcsummit2021**

Speakers and Topics	Forum and Time
Welcome to the IMC Summit 2021 Welcome Address **Chris Linthwaite** President and CEO, Fluidigm Moderator: **Michelle Macpherson** Director of Product Management, Imaging Mass Cytometry, Fluidigm	Auditorium 6:00 PT I 9:00 ET 14:00 BST I 15:00 CET
Making an impact in breast cancer research Introduction **Bernd Bodenmiller, PhD** Dual Professor for Quantitative Medicine, University of Zurich and Institute for Molecular Health Sciences, ETH Zurich Capturing diversity in tumor microenvironments: Biological determinants of breast cancer disparities **Melissa Davis, PhD** Assistant Professor of Cell and Developmental Biology, Scientific Director of the International Center for the Study of Breast Cancer Subtypes, Weill Cornell Medicine Obesity, inflammation and cancer **Daniela Quail, PhD** Assistant Professor, Department of Physiology, Rosalind and Morris Goodman Cancer Research Centre, McGill University	Auditorium 6:10 PT I 9:10 ET 14:10 BST I 15:10 CET

Speakers and Topics	Forum and Time

IMC Summit Keynote Presentation

Using IMC to understand the neuroinflammation of severe COVID19 infection

Bertram Bengsch, MD, PhD
Group Leader, Department of Internal Medicine II, University Medical Center Freiburg

Auditorium
7:10 PT | 10:10 ET
15:10 BST | 16:10 CET

Break

Visit The Promise of IMC and Product Kiosks

Kiosks
7:50 PT | 10:50 ET
15:50 BST | 16:50 CET

Ask an FAS: Sample preparation and panel design

Leigh-Anne McDuffus
Field Applications Specialist, Proteomics, Fluidigm

Ask an FAS
7:50 PT | 10:50 ET
15:50 BST | 16:50 CET

Expert User Insights: Roundtable Discussion

Moderator: **Noah Saederup, PhD**
Senior Product Manager, Mass Cytometry Reagents, Fluidigm

Panelists:

Dan Traum
Research Specialist, University of Pennsylvania

Marieke E. Ijsselsteijn
PhD Candidate, Leiden University Medical Center

Anthony Colombo
PhD Student in Biostatistics at University of Southern California, in collaboration with Cedars-Sinai Graduate School of Biomedical Sciences

Auditorium
8:05 PT | 11:05 ET
16:05 BST | 17:05 CET

Ask an FAS: ROI selection and considerations in selecting a data analysis pipeline

Eric Swanson, PhD
Senior Field Applications Specialist, Proteomics, Fluidigm

Ask an FAS
8:15 PT | 11:15 ET
16:15 BST | 17:15 CET

Introducing Maxpar® OnDemand

Clinton Hupple
Product Manager, Proteomics, Fluidigm

Auditorium
8:35 PT | 11:35 ET
16:35 BST | 17:35 CET

2021 Publication Spotlights

The spatial landscape of lung pathology during COVID-19 progression

Andre Rendeiro, PhD
Postdoctoral Associate in Computational Biomedicine, Institute for Computational Biomedicine and Englander Institute for Precision Medicine, Weill Cornell Medicine

Joint Speakers:

Immunogenomics of colorectal cancer response to checkpoint blockade: Analysis of the KEYNOTE 177 trial and validation cohorts

Michele Bortolomeazzi
PhD Student, Cancer Research UK King's Health Partners Centre, Cancer Systems Biology Group, King's College London, Francis Crick Institute

Lucia Montorsi, PhD
Postdoc in Peter Gorer Department of Immunobiology, King's College London, Francis Crick Institute

Auditorium
8:50 PT | 11:50 ET
16:50 BST | 17:50 CET

Speakers and Topics	Forum and Time

Ask an FAS: Getting the most out of your data analysis

Wendell Smith, PhD
Field Applications Specialist II, Proteomics, Fluidigm

Ask an FAS
9:20 PT | 12:20 ET
17:20 BST | 18:20 CET

Getting Started: Panel Discussion

Moderator: **Alex Cherkassky, MS, MBA**
VP, Franchise Head, Spatial Tissue Imaging
and Mass Cytometry, Fluidigm

Panelists:

Hiran Ravichandran, MS
Research Associate, Weill Cornell Medicine

Aida Meghraoui-Kheddar, PhD, PharmD
Senior Postdoc, Institute of Molecular and Cellular Pharmacology

Corrine Ramos, MBA, PhD
Innovation & Marketing Director, ImaBiotech

Auditorium
9:20 PT | 12:20 ET
17:20 BST | 18:20 CET

Ask an FAS: Dual-mode system use, calibration and other instrument operation

Ron Cohn, MS
Senior Field Applications Specialist, Proteomics, Fluidigm

Ask an FAS
9:55 PT | 12:55 ET
17:55 BST | 18:55 CET

Break

Auditorium
10:00 PT | 13:00 ET
18:00 BST | 19:00 CET

Data Analysis Session I: The importance of cell segmentation in the data analysis pipeline

Notes from the bench: IMC data analysis from a biologist's perspective
Hartland Jackson, PhD
Investigator, Lunenfeld-Tanenbaum Research Institute

Joint Speakers:

Mass Cytometry and single cell segmentation of lung tissue samples
Jay Hirota, PhD
Canada Research Chair in Respiratory Mucosal Immunology, Assistant Professor of Medicine, McMaster University

Kjetil Ask, PhD
Associate Professor, Firestone Institute for Respiratory Health, McMaster University

Data Analysis Sessions
10:15 PT | 13:15 ET
18:15 BST | 19:15 CET

Data Analysis Session II: Visiopharm® high-multiplex software and a new import function

Build a strong foundation: Powerful cell segmentation with Visiopharm's advanced phenotyping software
Brit Boehmer, PhD
Technical Sales Specialist, Visiopharm

Data Analysis Sessions
10:55 PT | 13:55 ET
18:55 BST | 19:55 CET

Speakers and Topics		Forum and Time
	Data Analysis Session III: An operationalized pipeline with IF data merging, HALO® and ImaCytE Integrating IMC into an initial QC and deep multi-omic phenotyping workflow: A tissue-sparing approach to maximize the amount of remaining clinically collected tissues for other spatial technologies **M. Caleb Marlin, PhD** Project Manager, Arthritis and Clinical Immunology, Oklahoma Medical Research Foundation	Data Analysis Sessions 11:15 PT I 14:15 ET 19:15 BST I 20:15 CET
	Data Analysis Session IV: Data analysis methods in emerging applications Barcoded IMC assays for an efficient spatial profiling of 3D spheroids **Vito Zanotelli, PhD** Recently from the Bodenmiller Lab, Department of Quantitative Biomedicine, University of Zurich	Data Analysis Sessions 11:35 PT I 14:35 ET 19:35 BST I 20:35 CET

IMCelebrates!

Come celebrate 100-plus Imaging Mass Cytometry publications and hear how IMC is advancing our understanding of health and disease.

Learn more and register today at **fluidigm.com/imcsummit2021**

*Donation of up to $3,000 based on $5 for each attendee who attends the summit for at least 1 hour

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