



5th German Mass Cytometry User Forum

January 20th/21st 2022
Online

DRFZ  BERLIN


German Mass Cytometry Network

masscytometry@drfz.de

Program

masscytometry2022.de

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5th German Mass Cytometry

User Forum

January 20-21, 2022



Dear friends of cytometry,

It is my pleasure to welcome the 5th German Mass Cytometry User Forum which will be held on January 20th & 21st 2022.

We have put together a diverse and entertaining programme around mass cytometry and mass cytometry imaging. Tutorials, news from the German mass cytometry community, two industry webinars, and some short talks!

The meeting will be free of charge for academic participants.

It is a particular pleasure to announce presentations by our guests:

- Thomas Ashhurst, Univ. Sydney
- Theodore Alexandrov, EMBL
- Felix Hartmann, DKFZ
- Tomer Meir Salame, Weizmann Institute
- Helena Crowell, University of Zurich, Switzerland

I am looking forward to an inspiring and enjoyable Mass Cytometry User Forum in 2022!

Best wishes,

Henrik Mei

Thursday, January 20, 2022

9:00- 9:15 **Welcome: Henrik Mei**

9:15-11:15 **Getting started**

Désirée Kunkel, Sarah Warth, Henrike Salié, Axel Schulz,
Bertram Bengsch

11.15-11.30 break

11.30-12.30 **Data analysis: Helena Crowell**

Chair: Henrik Mei

12:30-13:00 **Webinar Fluidigm**

Chair: Henrik Mei

Denis Schapiro and Sherry Derakhshani

Introducing the CyTOF XT and the newest member of the German imaging mass cytometry community: See the next evolution in high-dimensional cytometry

13.00-14:00 break

14:00-15:30 **Short talks from selected abstracts (6x15min)**

Chairs: Axel Schulz, Marie Burns

Melissa Klug, Munich, Germany

Platelet Heterogeneity in patients with chronic coronary syndrome: mature and reticulated platelet profiling using mass cytometry

Shamundeeswari Anandan, Bergen, Norway

High-dimensional immune mapping aiming at understanding the immune-driven regenerative potential of CD34+ stem cells in multiple sclerosis therapy

Axel Schulz, Berlin

Tin sulfide nanoparticles (SnS-NP) as novel reporter tags for mass cytometry

Matija Bajželj, Ljubljana, Slovenia

Subtyping Patients with Immunoglobulin A Vasculitis using Mass Cytometry Approach

Markus Steiner, Salzburg, Austria

Challenges in measuring phosphoproteomics with CyTOF in CLL

Marilena Letizia, Berlin, Germany

Store-Operated Calcium Entry Controls Innate and Adaptive Immune Cell Function in Inflammatory Bowel Disease

15:30-15:45 break

15:45-17:15 News From...

Chairs: Sarah Warth, Selina Keppler

... Berlin-DRFZ by Marie Burns

Ex vivo Immune Cell Signaling Activity to Stratify Patients with Rheumatic Disease

... Jena by Sabine Baumgart

Mass cytometric reference intervals of major leukocyte subsets from an enclosed community

... Ulm by Adrian Gihring

Immunological characterization of pathophysiological changes in obesity and the effect of weight loss after bariatric surgery

... Dresden by Daria Klusa

Co-evolution of circulating tumor cells and immune cells within the blood of prostate cancer patients under local ablative radiotherapy

... Berlin-BIH by Dominika Pohlmann & Julian Braun

Longitudinal characterization of cellular immune components in non-infectious chorioretinitis using mass cytometry (CyTOF)

Friday, January 21, 2022

9:00-10:30 Imaging
Chairs: Bertram Bengsch, Henrik Mei
Tom Ashurst, The University of Sydney, Australia
Integration and analysis of high-dimensional single-cell cytometry and imaging data in a murine model of viral encephalitis
Tomer Salame, Weizmann Institute of Science, Rehovot, Israel
Multiplexed Ion Beam Imaging (MIBI) – Methodology and Applications
Theodore Alexandrov, European Molecular Biology Laboratory, Heidelberg, Germany
Spatial Single-Cell Metabolomics Reveals Metabolic Cell States

10:30-11:00 break

11:00-12:30 News from... +short talk
Chairs: Sarah Warth, Selina Keppler
... Munich by Selina Keppler
Determining T cell exhaustion markers to predict COVID-19 disease progression?
... Halle by Chiara Massa
Immunomonitoring of tumor patients during immunotherapy
... Berlin-MPI for Molecular Genetics by Anika Rettig
MICCRA – a pipeline for the analysis of imaging mass cytometry data
... Freiburg by Laurenz Krimmel
Spatial analysis of the inflammation in spontaneous and immunotherapy-related autoimmune hepatitis

Short Talk by Marieke Ijsselsteijn
Multidimensional spatial profiling of immune landscapes in colorectal cancer across Consensus Molecular Subtypes

12:30-12:45 break

12.45-13.15 Webinar Beckman Coulter Life Sciences
Chair: Henrik Mei
Giulia Grazia, Beckman Coulter Life Sciences, Italy
Stop the Copy-Paste! From raw data to result in the Cytobank platform

13:15-13:45 break

13:45-14:15 Felix Hartmann

Chair: Henrik Mei

Single-cell analysis and multiplexed imaging of the metabolic interactions in the tumor immune microenvironment

14.30

Farewell and Short Talk Award

Henrik Mei

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