

Longitudinal Immunophenotyping Studies Expert Session

The Flow Cytometry Core Facility of the DBM kindly invites you to this virtual expert session.

Best practices in large longitudinal immunophenotyping studies using high-dimensional flow cytometry

High-dimensional flow cytometry enables the delineation of the human immune system at unprecedented depth and is particularly suitable for large human cohort studies due to its high-throughput capabilities. However, large flow cytometry-based studies are prone to technical and experimental errors. In this talk I will present important considerations for planning, preparation and realization of large immunophenotyping studies. A particular focus will be on strategies to identify and mitigate technical and experimental errors and to minimize technical variability. Overall, my talk will provide a blueprint for study design in large immunophenotyping studies using high-dimensional flow cytometry.

Please register for the seminar via the provided **QR-Code** below.

Speaker:

Thomas Liechti obtained his PhD in Immunology and Microbiology at the University of Zurich in 2017 and conducted a postdoctoral training in Mario Roederer's group at the Vaccine Research Center of the National Institutes of Health in Bethesda (USA). During his postdoctoral training, he established a high-throughput 28-color flow cytometry sample processing and analysis pipeline to investigate the contribution of genetic and environmental factors to immune homeostasis in a cohort with >3000 healthy individuals. In late 2022, Thomas Liechti joined the Clinical Cytometry group at Genentech's Translational Medicine department where he led flow cytometry activities ranging from exploratory phase I to late-stage phase III clinical trials. Since 2025 Thomas Liechti holds a research position in Systems Immunology at the Norwegian Institute of Health. In his current role, Thomas Liechti leads research projects using high-dimensional single-cell technologies to better understand protective immune responses in vaccines and infectious diseases.



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Date: June 8, 2025 – 14:00-15:00h

Format: Online (Microsoft Teams)

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