

T cell workshop 2026 – Hands-on sessions (4.9.2026)

Hands-on sessions take place in three consecutive blocks, with a break for lunch between blocks 2 and 3. Participants can register for one venue per time slot and are respectfully required to confirm their participation by signing on the sheets available at the registration desk on the first day.

Registration for the sessions is now OPEN for everyone.

The link to the registration form can be accessed here: tinyurl.com/TcW26HandsOn – or using the following QR code:



Venue 1: conventional cytometry

(Viničná Microscopy Core Facility – Cytometry, Exbio)

Location: [Viničná 7](#)

Jozef Janda, Aleš Efenberk

Practical demonstration of dry reagents in flow cytometry: DryFlowEx TBNK+ MonoDR 9-color (RUO) (Exbio) measured with 4-laser CytoFLEX flow cytometer. Attendees will be introduced to the practical aspects of staining PBMC from health donor using dry reagent-based 9-color panel. Sample preparation + staining, compensation and gating strategy setup and sample measurement using CytExpert software (Beckman Coulter) will be shown.

Venue 2: microscopy

(Viničná Microscopy Core Facility)

Location: [Viničná 7](#)

Ondřej Šebesta, Nikola Malinská

This workshop will introduce participants to three fluorescence imaging techniques: virtual slide microscopy (Axioscan), confocal microscopy, and light-sheet fluorescence microscopy (LSFM). Demonstrations will use intestinal samples from MHC II-EGFP knock-in mice, in which MHC II-expressing cells fluoresce green, and from MHC II-EGFP knock-in mice crossed with a tdTomato reporter line, in which, in addition to EGFP⁺ antigen-presenting cells, all cell membranes are labeled with membrane-localized tdTomato.

The workshop will begin with a brief introduction to the principles of fluorescence microscopy. Participants will then explore virtual slide imaging using tissue sections, followed by confocal microscopy of cryosectioned intestinal tissue. Finally, the principles and applications of light-sheet fluorescence microscopy will be demonstrated using a cleared intestinal sample. Participants who are interested will also have the opportunity to gain hands-on experience with both confocal and light-sheet microscopy.

Venue 3: spectral imaging cytometry and cell sorting (The Institute of Hematology and Blood Transfusion, building G)

Location: [Kateřinská 19](#)

Jan Musil, Antonín Ptáček

BD FACS Discover S8 imaging spectral sorter: combining spectral setup with image analysis for cell sorting of human PBMC. In this session, the participants will see setup and measuring of the spectral imaging panel as well as how to use live image analysis for sorting of human cells from healthy donor.

Venue 4: sponsor hands-on sessions (Accela, Waters) (Institute of Clinical Immunology and Allergology)

Location: [Studničkova 7](#)

Riccardo Pasculli (Accela)

More than 20 Years of Microcapillary Flow Cytometry: Cytex Guava's innovation. Fundamentals of Instrument, QC & Setup, Data Acquisition & analysis.

Ondřej Pelák (Waters)

Beyond conventional data analysis in FlowJo

Maps of routes between the individual venues:

[Link to a map showing all the venues](#)

