**IFDM2004-3001 InFLAMES Flow Cytometry Lectures**

**Timing:** 25.04.2022

**Registration:** 25.03.2022 - 08.04.2022

**ECTS Credits:** 0

**Assessment scale:** Pass/Fail

**Assessment criteria:** Participation in training, prerequisite lectures

**Objectives:** The InFLAMES Flow Cytometry lectures. The lectures can be taken by themselves or as a required prerequisite for the course IFDM2002 InFLAMES Flow Cytometry Practical Training.

Course will introduce the basic principles of flow cytometry. No prior knowledge of flow cytometry is assumed. Participants will learn how to prepare and analyze samples for flow cytometry and will be trained to use a flow cytometer.

**Prerequisites:** None

**Content and schedule:** Course will introduce the basic principles of flow cytometry. There will be a strong emphasis on practical applications. Lectures 7x45min, Practical training 11h.

Provisional lecture program (6 x 45min)
45 mins Course introduction, Antibody Labelling and Immunofluorescence
45 mins Introduction to the Flow Cytometer: Fluidics Optics and Lasers
45 mins How to correctly design a multicolour experiment
45 min How to prepare you samples
45 mins How high-throughput flow cytometry is used in research
45 mins Indroduction to Mass Cytometry – CyTOF