

Wet intensive course

CELL SORTING: FROM THEORY TO PRACTICE



Department of Medical Biotechnology and Translational Medicine
University of Milan "La Statale"
LITA
via Fratelli Cervi 93
20090 Segrate (MI)
Secretariat: citometria.biometra@unimi.it

MONDAY JUNE 23, 2025

- h. 10.30-11.00 *Domenico Mavilio*
Introduction to the course
- h 11.00-12.00 *Clara Di Vito*
Lecture: Multicolor flow cytometry and cell sorting
- h 12.00-12.30 *Silvia Della Bella*
Lecture: Sample preparation and experiment set-up
- 14.30-18.00 *Donatella Lattuada, Clara Di Vito*
Wet lab: Explanation of cell sorter functioning, acquisition and sorting of samples already stained (individual activity)

TUESDAY JUNE 24, 2025

- h. 9.00-12.30 *Alessandro Frigo, Simone Balin*
Wet lab: Instrument setting (individual activity)
- Donatella Lattuada, Estefania Viano*
Wet lab: Sample preparation and staining of adherent cells (individual activity)
- h. 14.30-18.00 *Donatella Lattuada, Alessandro Frigo*
Wet lab: Nozzle selection and cell sorting based on physical parameters (individual activity)
- Simone Balin, Francesca Calcaterra*
Dry lab: Quality check of samples acquired on Monday (individual activity)

WEDNESDAY JUNE 25, 2025

h. 9.00-12.30 *Donatella Lattuada, Estefania Viano*
Wet lab: Sample preparation and staining for 1- and 2-way sorting
(individual activity)

Simone Balin, Alessandro Frigo
Wet lab: Instrument setting for 1- and 2-way sorting
(individual activity)

h. 14.30-18.00 *Clara Di Vito, Alessandro Frigo*
Wet lab: 1- and 2-way sorting
(individual activity)

Francesca Calcaterra, Simone Balin
Dry lab: Quality check of samples acquired on Tuesday
(individual activity)

THURSDAY JUNE 26, 2025

h. 9.00-12.30 *Donatella Lattuada, Estefania Viano*
Wet lab: Sample preparation and staining for 4-way sorting
(individual activity)

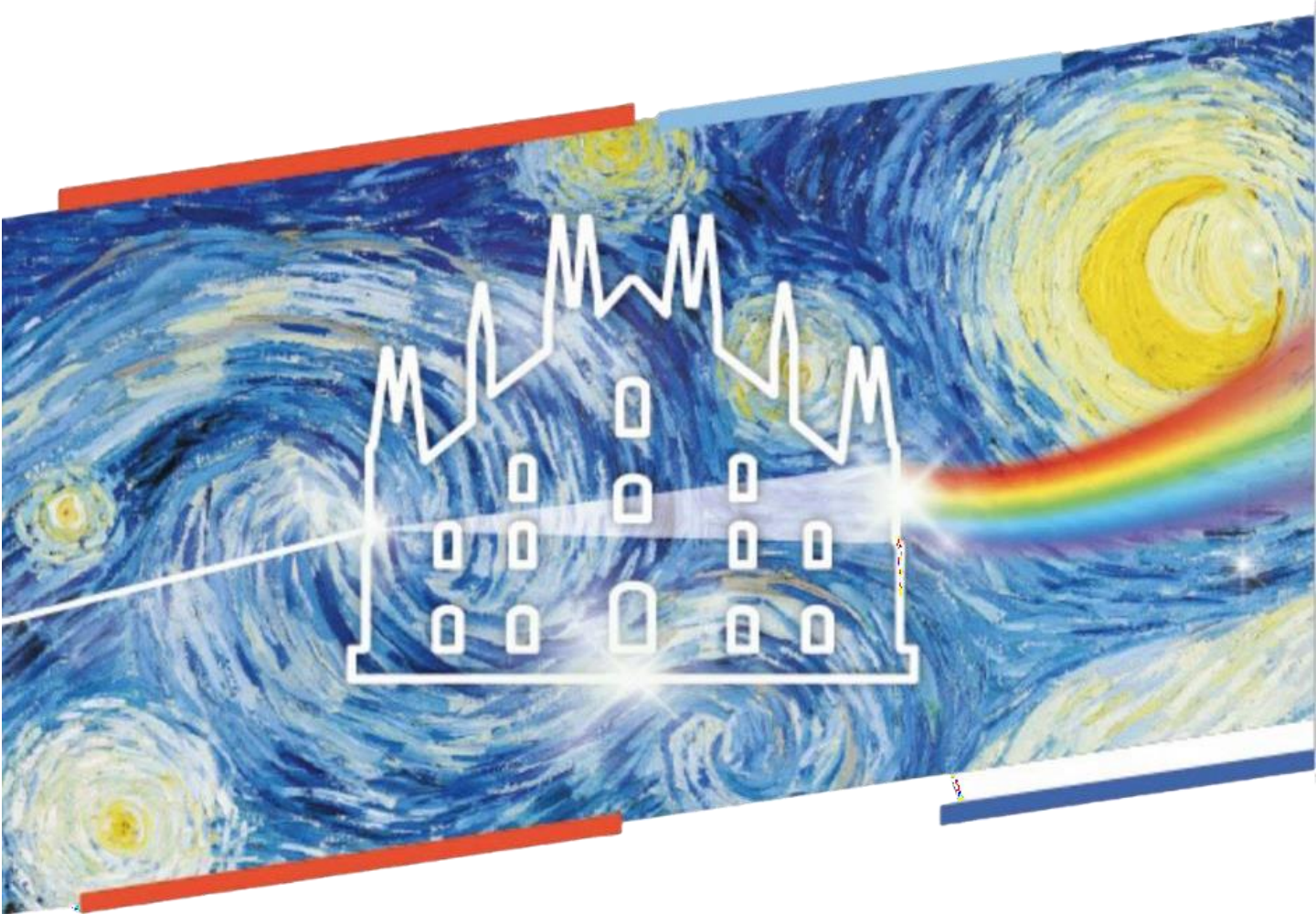
Simone Balin, Alessandro Frigo
Wet lab: Instrument setting for 4-way sorting
(individual activity)

h. 14.30-18.00 *Clara Di Vito*
Wet lab: 4-way sorting
(individual activity)

Francesca Calcaterra, Estefania Viano
Dry lab: Quality check of samples acquired on Wednesday
(individual activity)

FRIDAY JUNE 27, 2025

- h. 9.00-12.30 *Francesca Calcaterra, Clara Di Vito*
Round table: Discussion of cases, troubleshooting and peculiar cases
- h. 14.00-14.30 QUESTIONNAIRE COMPILATION
- h. 14.30-15.30 *Domenico Mavilio, Silvia Della Bella, Clara Di Vito*
Final remarks and closing of the course



Relatori e Tutors

Simone Balin

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan

Francesca Calcaterra

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan

Silvia Della Bella

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan

Clara Di Vito

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan

Alessandro Frigo

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan

Donatella Lattuada

Flow Cytometry Facility, BioMeTra, University of Milan

Domenico Mavilio

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan

Estefania Viano

Unit of Clinical and Experimental Immunology, BioMeTra, University of Milan
Flow Cytometry Facility, BioMeTra, University of Milan