

Wet intensive course

FLOW CYTOMETRY FOR BEGINNERS



Department of Medical Biotechnology and Translational Medicine
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MONDAY JANUARY 19, 2026

- h. 10.30-11.00 Introduction to the course
- h. 11.00-12.30 *Lecture*
Basic principles of flow cytometry
- h. 14.30-18.00 *Wet Lab*
Explanation of flow cytometer functioning
(individual activity)
- Wet Lab*
Staining of adherent cells
(individual activity)

TUESDAY JANUARY 20, 2026

- h. 9.00-11.00 *Lecture*
Experiment set-up and immunophenotyping
- h. 11.00-13.00 *Wet Lab*
Acquisition of samples prepared on Monday
(individual activity)
- h 14.00-16.00 *Dry Lab*
Introduction on flow cytometry data analysis
(individual activity)
- h 16.00-18.00 *Dry Lab*
Analysis of samples acquired
(individual activity)

WEDNESDAY JANUARY 21, 2026

- h. 9.00-11.00 *Wet Lab*
Sample preparation: cell thawing and staining for antibody titration
(individual activity)
- h. 11.00-13.00 *Wet Lab*
Acquisition of samples for the antibody titration
(individual activity)
- h 14.00-16.00 *Dry Lab*
Panel design
(individual activity)
- h 16.00-18.00 *Dry Lab*
Analysis of samples acquired in the morning
(individual activity)

THURSDAY JANUARY 22, 2026

- h. 9.30-10.30 *Dry Lab*
Identification of titers to be used in the 7-color panel
- h. 10.30-13.00 *Wet Lab*
Staining of cells with a 7-color panel and internal control preparation
(individual activity)
- h. 14.00-18.00 *Wet Lab*
Acquisition of the 7-color panel tubes and controls
(individual activity)
- Dry Lab*
Discussion of cases, troubleshooting

FRIDAY JANUARY 23, 2026

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| h. 9.00-12.30 | <i>Dry Lab</i>
Analysis of samples acquired the fourth day
(individual activity) |
| h. 13.00-14.30 | QUESTIONNAIRE COMPILATION |
| h. 14.30-15.30 | Final remarks and closing of the course |

