

***Graduate Program in Molecular Cell Biology and Oncology:  
MCBO Methods Courses***

Special Lecture/Course in: Introduction to Flow Cytometry  
Lecturer: Sieghart Sopper (Maximilian Bösch)

Number:

Type: VU ECTS: 1,5 (2 SSt)

Character: 170093

Time/Date: To be fixed after consultation with participants, preferably  
Mai/June

Location: IFCU, 7-G5-009A

Limited number of places YES, number of places 4, registration necessary YES

For registration or questions please contact Sieghart.sopper@i-med.ac.at

Aim:

Knowledge on the principles of flow cytometry, competence in performing simple immunofluorescence experiments
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Description/contents:

Flow cytometry is an important technique to quantitatively measure characteristics of single cells or particles as they travel in suspension one by one past a sensing point. In most cases, flow cytometers measure photons and thus consists of a light source and optics, fluidics to bring the cells to the optical path, and electronics to translate signals to data. Applications of flow cytometry are numerous, and this has led to the widespread use of this technique in the life sciences.
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This course consists of an introduction about the theoretical background of this method and an overview about possible applications. In addition, the participants will perform experiments with up to 4 fluorescent colors using direct and indirect staining techniques with antibodies and will learn how to interpret the data.
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Suggested reading:

Howard Shapiro, Practical Flow Cytometry
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<a href="http://www.beckman.com/coulter-flow-cytometry/practical">http://www.beckman.com/coulter-flow-cytometry/practical</a>
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