Flow Cytometry Course
Principles and Applications

September 1-5, 2014

Zagreb, Croatia

Hosted by the Children's Hospital Srebrnjak

INSTRUCTORS

DENIS POLANCEC
Zagreb, Croatia
Main instructor

RUI GARDNER
Lisbon, Portugal
Main instructor

HELENE DUJARDIN
Nantes, France
Assistant instructor

Organized by FloCyte Associates
Susan DeMaggio MS BSMT(ASCP) QCym

Course coordination: Helene Dujardin - helene@flocyte.com
Apply via the website www.FloCyte.org
Course Information

Course location
Children's Hospital Srebrnjak.
Srebrnjak 100, Zagreb, Croatia.

Date and Time schedule
Monday 1st to Friday 5th of September 2014 - 9am to 5pm

Participants
The course is organised for up to 20 participants.
Any scientist (researchers, medical doctors, technicians, engineers, students...) with experience in biology-related field and a good laboratory practice.
No experience in flow cytometry is required, the participants expected level will range from beginners to intermediate users.

Goal of the course
This 5-day course gives you a step by step approach into flow cytometry technique, taking the time to integrate and apply the most important principles of the technology. At the end of the course you will be familiar with the technique and the instruments, and you will have all the information necessary to perform high quality flow cytometry experiments.

Course settings
The mornings are dedicated to lectures, providing concepts and methods of flow cytometry. During the afternoons, different practice sessions will be organised to directly apply and review the information seen in the morning. You will have multiple opportunities to work as small groups with cytometers and get familiar with the instruments, as well as to perform data analysis.

Instruments and Sponsors
FloCyte courses are supported by different cytometers, reagents and software manufacturers. Our courses are applicable to any instrument and you will learn how to get the most of your flow cytometry experiments whatever system you have.
Sponsors will also actively participate in this course by organising 30-minute technological sessions, as lecture or practical sessions.

More about FloCyte
FloCyte is providing flow cytometry courses since 2003, with about 5000 trained individuals since then around the world. FloCyte is accredited by the international Society for the Advancement of Cytometry (ISAC) and the Clinical Cytometry Society (CCS) to offer contact hours for those holding the International Cytometry Certification in Cytometry.
Don't hesitate to go to FloCyte website to get a presentation of the team and teachers and to see other FloCyte courses.
# Course Registration

The course fee includes one person registration to the 5-day course, the coffee breaks and lunches. It does not include travel and accommodation. 

Registration application through FloCyte website: [https://www.flocyte.com/registration-application/](https://www.flocyte.com/registration-application/)

**Register before the 27th of June 2014!**
Place is limited to 20 participants and late fee of $200 apply after this date.

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<th>Before 27th of June</th>
<th>After 27th of June</th>
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<tr>
<td><strong>Regular fee</strong></td>
<td>$1200</td>
<td>$1400</td>
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<tr>
<td><strong>Special course discount fee</strong></td>
<td>$520</td>
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* discount limited to 12 seats in the course. Only applies to scientist working/studying in the following countries: Bulgaria, Croatia, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia.

Pre-registration period
Between March and May 2014, put an option on your participation to the course and save your seat for a month without paying any fee!
Write to our european coordinator to get your pre-registration: helene@flocyte.com

## Contact Information

Don’t hesitate to contact us for any question you may have on the course, registration or course information
European coordinator: helene@flocyte.com
FloCyte team: flocyte@flocyte.com

# Program Overview

## Monday

**Fluorochromes and their detection by flow cytometry**

**Principles**
- Introduction
- Fluorescence and Fluorochromes
- Basics of a flow cytometer

**Practice**
- Walk through the cytometer
- Introduction to acquisition
- Spectral viewer
- Data display and introduction to analysis

## Tuesday

**Good practices for optimal flow cytometry experiment**

**Principles**
- Using fluorochrome successfully
- Experimental optimisation
- Sample preparation

**Practice**
- Acquisition on the cytometer - simple experiment
- Tips and tricks in the laboratory

## Wednesday

**Compensation, data type and scaling**

**Principles**
- Compensation principles
- Types of compensation and data files
- Data scaling after compensation

**Practice**
- Setting up the compensation on the cytometer
- Software compensation post-acquisition
- Manual compensation / Automatic compensation

## Thursday

**Experiment planning, panel design and controls**

**Principles**
- Controls in cytometry
- Experiment planning and panel design
- Data analysis, gating and statistics

**Practice**
- Experiment from A to Z - Immunophenotyping: choice of the antibody panel, list of necessary controls and experimental tubes, staining, experiment acquisition on the cytometer, export of the data for analysis

## Friday

**Data analysis and presentation - flow cytometry applications**

**Principles**
- Applications in flow cytometry
- Other cytometric technologies
- Data presentation guidelines
- Cytometry Softwares survey

**Practice**
- Data Analysis - immunophenotyping from Thursday
- Data Analysis Worskhops sessions (2 sessions of your choice): multicolor experiment, cell cycle, proliferation, software introduction (SPADE, SPICE...etc), Q&A on your data...etc - final program will be based on participants request in a pre-course questionnaire.