

# BD Multicolor Flow Cytometry Training

## Best Practices for Multicolor Experiments Design

### Course Overview

|               |  |
|---------------|--|
| Aim:          | Reinforce and expand skills in performing multicolor experiments |
| Length:       | 2.5 days   |
| Participants: | 6 (maximum)  |
| Location:     | BD European Training Center in Belgium                           |
| Language:     | English  |

### Course Description

This 2.5 days BD Multicolor Flow Cytometry course has a focus on the design and analysis of multiparameter panels of up to 16 colors on BD digital flow cytometers.

Topics such as optimal *instrument setup, panel design and quality control measures to ensure you obtain reliable data*, provide participants with the necessary knowledge to master the growing challenges in multicolor immunophenotyping.

Theory and hands-on exercises will be equally balanced. The small class size offers an optimal setting for hands-on learning and interaction with the instructor.

### Who should attend

Participants who want to reinforce and expand their skills in performing multicolor experiments. You may be looking to start doing measurements with more colors or simply want to go into more depth to ensure the data quality with the current number of colors.

### Course Prerequisites

Participants should be familiar with flow cytometry and the BD FACSDiva™ software.



### What you will learn

After completing this course you will be able to:

- Create cell-type-specific, optimized PMT-V settings and save these for re-use
- Select fluorochrome combinations for a panel with up to 16 colors including Live / Dead stains, perform correct compensation and analyze your data
- Choose from classical fluorochromes and new BD polymer dyes combinations specifically for intra- and extra-cellular stainings
- Understand the sources of artifacts (“data-spread effects”) in flow cytometry and how to avoid these

### Dates and Registration

To view available dates and register for a course, please click on the link below and select your country:

<http://www.bdbiosciences.com/eu/s/training/classroombased>

If you have any questions, please contact:

[BDB.Training@bd.com](mailto:BDB.Training@bd.com)

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|                      | Theory   | PRACTICAL EXERCISES<br>two participants per instrument  |
|----------------------|--|---|
| <b>BD™ CS&amp;T</b>  | How to identify optimized PMT-V settings and store them using Application Settings.  | Identify and save optimized PMT settings for different cell types.  |
| <b>Fluorochromes</b> | Characteristics of classical fluorochromes and new BD polymer dyes that are relevant for the successful design of multicolor panels.   |   |
| <b>Compensation</b>  |  | Perform compensations with up to 16 fluorochromes and learn how to optimize compensations manually.             |
| <b>Controls</b>      |  | Perform experiments including FMO Controls to understand the “data-spread effect” and how you can avoid this.   |
| <b>Panel Design</b>  | Guidelines for building a panel with up to 16 antibodies, choosing fluorochromes to optimize antigen detection and population resolution.<br><br>Learn how to select reagent combinations and best buffers for different intra-cellular stainings. | Independently design a panel with up to 16 colors<br><br><i>(staining will be done for you)</i>                 |
| <b>Analysis</b>      |  | Acquire FCS files, analyze the data and discuss the results.  |
| <b>Instruments</b>   |  | You can choose to work either on a BD FACSCanto™ II, BD LSRFortessa™ X-20, BD FACSCelesta™ or BD FACSAria™ III. |

### What you will receive

- A printed training manual that includes the presentations and exercises
- Sample preparation protocols and reagent data sheets
- A 2 GB memory stick to save FCS files of all data generated during the training
- A Certificate of Completion

Lunch is provided on all days at our facilities.

**This course does not include transportation or accommodation.**

### Location

BD Biosciences European Training & Education Center  
Erembodegem-Dorp 86  
9320 Erembodegem  
Belgium

### SPECIAL GROUP OFFERS

Any institute / department that pays for the same training date **more than three places** can optionally:

- Add one **additional participant** for free, or receive a **discount** of 20% on the tuition fee.
- Discuss the possibility of **adaptation** of the course content according to individual needs (request must be made at least 4 weeks before the training date).