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# Flow Cytometry Core Principles

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*Educational objectives: This one day course will cover the core principles of flow cytometry to provide critical concepts for all users. This course focuses on the core concepts of flow cytometry - the 'fundamentals' that every scientist using flow cytometry should know.*

*Target Audience: Users with flow cytometry experience looking to learn the primary concepts of flow cytometry. Learning the fundamentals will ensure that your flow cytometry experiments will yield proper results.*

## Course Outline/Schedule

- 09:00-09:30 Introductions and course overview
- 09:30-10:00 *Lets get physical!* Why electrons matter! - Fundamentals of Cytometry
- 10:00-10:30 *Look at all the pretty colors.* Reagents - Fluorescence and Antibodies
- 10:30-10:45 Coffee Break
- 10:45-11:45 *How it all works?* Understanding the cytometer
- 11:45-12:00 Questions from morning session
- 12:00-13:00 Lunch
- 13:00-13:45 *Show your true colors!* Theory of multicolor panel design
- 13:45-14:30 *Payday!* Compensation in flow cytometry.
- 14:30-15:00 *It's all Greek to me.* Basics of flow data display and critical statistics
- 15:00-15:15 Coffee Break
- 15:15-16:00 *Cytometry Feng Shui.* Controls in flow cytometry.
- 16:00-16:45 *What's it all about?* Survey of applications.
- 16:45-17:00 Course wrap-up

*Expert Cytometry - Experience Cytometry - Time to ExCyte!*