

TRAINING IN FLOW CYTOMETRY AND RELATED TECHNOLOGIES

26th FEBRUARY– 1st MARCH 2024

Course Overview

Flow cytometry is a powerful technique that allows for examination of multiple proteins within cell populations using fluorescently labeled antibodies. Multi-parameter fluidic-based flow cytometry has been applied to multiple fields of study ranging from basic to clinical immunology, cancer biology, neuroscience, stem cell research and drug discovery. This course will introduce the fundamentals of flow cytometry as well as practical applications in life sciences and medicine. At the end of this training, participants shall have gained strong background level understanding of the technology, its current limitations, and future opportunities. A major goal of the course will be acquisition of practical flow cytometer operation skills as well as accurate data analysis.

Suitability

This course is suitable for researchers, scientists, laboratory analysts, immunologists, clinicians, graduate and post-graduate students who have background in molecular biology/biotechnology, biochemistry, medicine and are interested in practical aspects of Flow Cytometry.

DAY 1 (09.00-10.00)	● Registration and Orientation
10.00-10.30	<i>Tea Break</i>
11.00-12.30	● Introduction to Flow Cytometry and related technologies
12.30-14.00	<i>Lunch Break</i>
14.00 -16.30	● The nuts and bolts of flow cytometry
DAY 2 (9.00-10.30)	● Selecting the right fluorophore for experiments
10.30-11.00	<i>Tea Break</i>
11.00-12.30	● Flow cytometry reagents and buffers
12.30-14.00	<i>Lunch Break</i>
14.00-16.30	● Sample preparation
DAY 3 (9.00-10.30)	● Selection of Flow cytometry appropriate controls
10.30-11.00	<i>Tea Break</i>

11.00-12.30	<ul style="list-style-type: none"> ● Optimization of flow cytometry protocols 	
12.30-14.00	<i>Lunch Break</i>	
14.00-15.30	<ul style="list-style-type: none"> ● Staining;Protocols for direct,indirect and intracellular staining 	
DAY 4 (9.00-10.30)	<ul style="list-style-type: none"> ● Designing and running of flow cytometry experiment ● Setting up of compensation controls for multicolor flow cytometry analysis 	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	<ul style="list-style-type: none"> ● Visualization of flow cytometry generated data 	
12.30-14.00	<i>Lunch Break</i>	
14.00-15.30	<ul style="list-style-type: none"> ● Analysis of flow cytometry data 	
DAY 5 (9.00-10.30)	<ul style="list-style-type: none"> ● Troubleshooting most common problems inflow cytometry analysis 	
10.30-11.00	<i>Tea Break</i>	
11.00-12.30	<ul style="list-style-type: none"> ● Recap of the course 	
<i>Lunch Break</i>	<i>12.30-14.00</i>	
14.00 – 15.00	<ul style="list-style-type: none"> ● Closing ceremony and issuance of certificates 	
Date:26thFeb – 1st March,2024 Deadline 16th February,2024		Cost Kes. 92,800.00 or USD 928.00
NAIROBI		

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