

1st Annual Online Certificate Course in Flow Cytometry

organized by
Flowcytometry Solutions Pvt Ltd, India

Flow Cytometry: Basics, Experimental Designing and Data Analysis

2nd May to 3rd June, 2023

Course Overview & Objective

Flow Cytometry is one of the most powerful single cell analysis tool used in biological research and clinical diagnostics. Using this state-of-the art technology, we can study and quantify various parameters of the cells or cell like particles in heterogeneous samples. The power of flow cytometry cannot be appreciated without correct experimental designing, acquisition, data analysis and presentation.

This 1-month online course will cover the fundamentals of flow cytometry to provide a deeper understanding of the important concepts in flow cytometry. Through lectures and practical activities, participants will learn the core concepts in experimental designing, acquisition, data analysis & presentation and troubleshooting. We will cover the theory combining with the practical sessions of the most frequent assays as part of our course curriculum. This in-depth one month course will enhance your flow cytometry knowledge and skills preparing you for any current or future flow cytometry jobs and projects.

Course Highlights

1. Basics of Flow Cytometry
2. Know Your Cytometer (KYC)
3. Make Your Own Cytometer (MYO)
4. Instrument Setup, QC, Voltage/Gain Settings etc
5. Panel Designing, Spectral Overlap & Compensation
6. Cell Sorting
7. Advances in Cytometry
8. Data Analysis and Presentation
9. Live Demonstration of Instrument setup, Data Acquisition, Data Analysis and Interpretation

Who Can Attend

Students, Lab Technicians, Researchers, Postdocs, Faculties, Doctors, Industry Professionals, etc

This online course is designed for students, researchers, doctors and technical people at any step of their career and will cover the important concepts and principles of flow cytometry.

Speakers



Dr. Hemant Agrawal
Co-Founder Director
Flowcytometry Solutions, India



Dr. William Telford
Head, ETIB Flow Cytometry Facility
NCI, NIH, USA



Dr. Rui Gardner
Head, Flow Cytometry,
MSKCC, NY, USA



Dr. Alfonso Blanco
Director, Flow Cytometry,
University College Dublin, Ireland



Dr. Himanshu Tillu
Consultant
Flowcytometry Solutions, India

Detailed Program (7.00pm - 9:00pm IST)

Day and Date	Topic
Day 1 (2 nd May 2023)	Self Assessment Test, Introduction to Flow Cytometry
Day 2 (4 th May 2023)	WET LAB: KYC: Know Your Cytometer —Decoding the Black Box--Fluidics, Optics and Electronics
Day 3 (6 th May 2023)	WET LAB: MYO-Make Your Known Flow Cytometer Assembling the various parts to build a functional Flow Cytometer
Day 4 (9 th May 2023)	Applications of Flow Cytometry
Day 5 (11 th May 2023)	WET LAB: Machine Setup, Quality Control, Template Creation, Threshold Settings, Viability Assay and Cell Cycle
Day 6 (13 th May 2023)	Flow Cytometry Experimental Designing (Part 1) Fluorochrome Selection, Spectral Viewer, Sample and its Quality, Antigen Density, Antibodies Selection, Antibody Clone, Autofluorescence etc.
Day 7 (16 th May 2023)	Flow Cytometry Experimental Designing (Part 2) Panel designing, Spectral Overlap and Compensation, Data Spread, Spillover Spreading Matrix (SSM) etc.
Day 8 (18 th May 2023)	Cell Sorting—Principle and Approach
Day 9 (20 th May 2023)	WET LAB: Multicolour Immunophenotyping Experiment Sample Preparation, Machine Settings, QC, Template Creation, Data Acquisition and Analysis
Day 10 (21 st May 2023)	All About Controls in Flow Cytometry Assay Controls, Gating Controls, Instrument Controls, Comp Controls etc
Day 11 (23 rd May 2023)	Flow Cytometry Data Analysis and Visualization (Part 1) Data Standards, Plots, Displays, Axis, Gating, Statistics, Number of Events to Acquire etc.
Day 12 (25 th May 2023)	LAB: Flow Cytometry Data Analysis and Visualization (Part 2) Analysis of Different Data Sets—Cell Viability, Cell Cycle, Apoptosis, Proliferation, MMP, ROS, Signal Transduction, Cytokines, Whole Blood Leukocytes etc.
Day 13 (27 th May 2023)	Flow Cytometry Data Presentation and Publication Guidelines MIFlowCyte: Data Presentation Guidelines (An ISAC Recommendation)
Day 14 (30 th May 2023)	Tutorial on Tissue Cytometry
Day 15 (2 nd June 2023)	Advances in Flow Cytometry
Day 16 (3 rd June 2023)	Challenges in Flow Cytometry, Troubleshooting, Q & A and Final Quiz

- This is an online interactive course designed to learn and understand the flow cytometry principles in a simple way
- Exercises will be given for each topic for self assessment
- At the end of the course, there will be a quiz, which includes questions from all the covered topics

How to Apply

- Fill Registration form online by clicking on the “**Register Now**” button below.
- Thereafter make a payment via scanning the below QR using any payment app. After payment, send receipt at training@flowsols.com . Once all the information is received, the registration will be confirmed within 24 hours via email

Registration Fee

For India

- Students/JRF/SRF/Technicians: INR 5000
- Faculty/Postdoc/Resident Doctors/Medical Doctors/Technical or Scientific Officers: INR 8000
- Industry Professionals: INR 15000

Outside India:

- SAARC/South East Asia/South America/Africa: USD 100
- Other Countries: USD 150

Payment (For India)

Scan the below QR Code and make a payment



International Payment

Upon registration, payment link will be shared with you to make an online payment.

Discount on Registration Fee

- 20% for Group of 10 or More
- 10% for Group of 5 or More

- This is an Interactive online Training Course
- Reading Material will be provided
- Recordings for all the Sessions will be available to watch
- E-Certificate will be given
- Prizes for quiz winners

Register Now

Last Date of Registration 30th April 2023

Our Supporter

Trust for Education and Training in Cytometry (TETC), India



Contact: training@flowsols.com, +91-7665130114