

3-Days Hands-on Flow Cytometry Workshop

(Basics, Apoptosis, Cell Cycle, Immunophenotyping, Proliferation & Data Analysis)

(9th-11th May 2018)

PROGRAMME

Day 1:

0900-1100: Introduction to Flow Cytometry and its Applications

1100-1115: Tea Break

1115-1230: KYC: Know Your Cytometer—Decoding the Black Box.

1215-1315: How to perform toxicology assays using flow cytometry?

1315-1400: Lunch

1400-1500: Instrument startup and demonstration of instrument setup; Template preparation for data acquisition, PMT Voltage setting, Threshold etc.

1500-1730: **Lab 1:** Cell Cycle Module: Cell cycle analysis using PI (Cell cycle data analysis, Doublet discrimination etc.)

Day 2:

0900-0930: Review of Day 1 and queries

0930-1100: How to set up and Design a Multicolor Flow Cytometry Experiment?

Fluorochromes, Spectral Overlap and Compensation, Controls, Antibodies selection and their Titration etc

1100-1115: Tea Break

1115-1300: **Lab 2:** Apoptosis and proliferation assays

1300-1400: Lunch

1400-1730: **Lab 3:** Multicolor Immunophenotyping

Day 3:

0900-0930: Review of Day 2 and queries

0930-1100: Concepts and Basics of Flow Data Analysis—What to do and what not to do?

1100-1115: Tea Break

1115-1300: Analysis of Flow Data and Reporting Results—Discussion about Fundamental Statistics and introduction to MiFlowCyte: Data Presentation Guidelines.

1300-1400: Lunch

1400-1700: **Lab 4:** Flow cytometry data analysis on a software, troubleshooting, discussion and Q&A.

1700-1730: Test, evaluation, Valedictory and feedback