



OSMANIA UNIVERSITY

OSMANIA UNIVERSITY
FLOWCYTOMETRY SOLUTIONS Pvt. Ltd.
Organizes



Hands on Flow Cytometry Workshop on Apoptosis, Cell Cycle and Data Analysis September 26 - 28, 2013, Hyderabad



About DBT OU ISLARE

Department of Biotechnology, Government of India, funded Osmania University to set up an inter-disciplinary School of Life Science for Advanced Research and Education. The main objective of this program is to expose and train budding Life Science students and research scholars with advanced and state of the art technique enabling them to carry out research in frontier area of Science and Technology. As a part of this program we are planning to organize a series of workshops to train students in advance techniques.

The present workshop on flow cytometry exposes students with basics of this technique and hands on experience in exploring the instrument for their research needs.

About Flowcytometry Solutions (FlowSols) Flowcytometry Solutions (FlowSols) is an organization, which aims at providing complete solution to the researchers and clinicians on flow cytometry. We offer to provide support to the students and researchers engrossed to flow cytometry pitch, towards addressing problems pertaining to instrument handling, experiment design and applications, sample preparation, acquisition, data investigation and presentation. Our mission is to provide a complete flow cytometry expertise, which can help researchers to innovate, lead and excel (www.flowsols.com).

PROGRAM

Day 1:

09:05-09:15: Welcome note

09:15-09:30: Scope of the workshop

09:30-11:00: Introduction to Flow Cytometry and its Applications

11:00-11:15: Tea Break

11:15-12:15: All about Multicolor Flow Cytometry: Fluorochromes, Spectral Overlap, Compensation Controls, experimental designing and controls.

12:15-13:15: How to perform cell cycle assay using flow cytometry?

13:15-14:00: Lunch

14:00-15:00: Instrument startup and demonstration of instrument setup; Template preparation for data acquisition, PMT Voltage setting, Threshold etc.

15:00-17:30: Wet lab 1: Cell cycle analysis using propidium iodide (sample preparation and acquisition).

Day 2:

09:00-09:30: Review of Day 1 and queries

09:30-11:00: Analysis of cell cycle data from previous day using cell cycle analysis software.

11:00-11:15: Tea Break

11:15-13:00: What is apoptosis and how to study apoptosis using flow cytometry?

13:30-14:00: Lunch

14:00-17:30: Wet lab 2: Apoptosis analysis using Annexin V and propidium iodide (sample preparation and acquisition).

Day 3:

09:00-09:30: Review of Day 2 and queries

09:30-11:00: Analysis of apoptosis data from the previous day using flow cytometry data analysis software.

11:00-11:15: Tea Break

11:15-13:00: In and outs of Flow Data Analysis and Presentation — what to do and what not to do?

13:00-14:00: Lunch

14:00-16:30: Hands on flow data analysis and discussion.

17:00-17:30: Test, evaluation and feedback

17:30: Valedictory session

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VENUE

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