

Report on Two-Day “Basic Flow Cytometry Workshop” organized by ICEIR and Dept. of Biosciences, Integral University

1 message

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Two-Day “Basic Flow Cytometry Workshop”**23rd-24th October 2024.****Organized by****Integral Centre of Excellence for Interdisciplinary Research (ICEIR)****In collaboration with****Department of Biosciences, Integral University, Lucknow.****REPORT**

Two-day “Basic Flow Cytometry Workshop” was organized on 23rd-24th October, 2024 by the **Integral Centre of Excellence for Interdisciplinary Research (ICEIR) & Department of Biosciences, Integral University, Lucknow**, aimed at providing participants with a foundational understanding of flow cytometry principles, techniques, and applications. The workshop attracted a diverse group of students, eager to enhance their expertise in this powerful analytical tool. Led by experienced instructors with extensive backgrounds in flow cytometry, the workshop balanced theoretical concepts with practical, hands-on training. The workshop aimed to instill practical skills to enhance their employability, and included both lectures and practical sessions.

The workshop started on 23rd October 2024 at 10:00 a.m. with words of welcome by **Prof. Wahajul Haq**, Dean, Research & Development and **Prof. Syed Misbahul Hasan**, Director, ICEIR. **Prof. Snober S. Mir**, Head, Dept. of Biosciences emphasized on the importance of flow cytometry in biological research. Resource persons were **Dr. Shashank Mishra**, Application Scientist, BD Biosciences and **Mr. Gaurav Asthana**, Area Sales Manager, Biosciences, BD Life Sciences.

On day 1, the workshop included a lecture session by **Dr. Shashank Mishra** on the topic “Flow-Cytometry: Principles and Applications”. The lecture featured a deep explanation of the fluidics and laser systems of the flow cytometer. It also included the applications of the instrument and the potential challenges faced by researchers during sample preparation and analysis along with their troubleshooting. This was followed by a hands-on session to train students on BD FacsLyric flow cytometer. Modules included in this session were routine maintenance of BD FacsLyric flow cytometer, establishing fluorescence compensation using BD-FC 5 color and BD-FC 7 color kits, and performance QC using BD-CS&T beads. On day 2, hands-on training modules included sample preparation, cell cycle analysis, ROS assay, and apoptosis assay.

The workshop was successfully managed by **Dr. Mohammad Rumman**, Assistant Professor, Department of Biosciences (Workshop coordinator)

All supporting staff members of ICEIR were actively involved in the smooth conduction of hands-on practical sessions of allotted modules. At the end of the workshop, a quiz was given to registered participants to assess their level of understanding of the concept.

In order to provide rigorous hands-on training to students, registration was limited to 5 participants only; besides 10 non-registered participants, including the enthusiastic students and faculty members also attended the workshop. Participants were from the Dept. of Biosciences, Pharmacy, and Integral Institute of Allied Health Sciences. The participants successfully cleared the Workshop Completion Test and were awarded certificates of participation.

Glimpses of the Event

Prof. Snober S. Mir welcoming the participants



Lecture by Dr. Shashank Mishra, Application Scientist, BD Biosciences



Hands-on session



Group Photograph



Representative certificate

Best Regards

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