

Flow cytometry workshop report

On 21st September 2024, a comprehensive workshop on flow cytometry was conducted to enhance participants' understanding of this powerful analytical technique. The number of participants was 40.

The workshop was organized by Flow cytometry India in collaboration with Beckman Coulter India. The resource persons included Dr. Vainav Patel, Dr. Vikrant Bhor, and Ms. Maya Gupta, whose expert guidance and practical insights made this workshop on flow cytometry a truly enriching experience. Their dedication to imparting knowledge, coupled with their deep understanding of both the theoretical and practical aspects of flow cytometry, provided participants with an invaluable learning opportunity. Their detailed explanations, hands-on demonstrations, and patient mentoring helped everyone gain a clearer and more confident grasp of this complex technology.

The first session of the Flow Cytometry Workshop focused on the fundamental principles and instrumentation of flow cytometry by Dr. Vikrant Bhor.

Second Session of the Flow Cytometry Workshop: Immune System and Sample Preparation by Ms. Maya Gupta

Third Session of the Flow Cytometry Workshop: Real-Life Applications of Flow Cytometry by Dr. Vainav Patel

Fourth Session of the Flow Cytometry Workshop: Instrumentation and Demonstration of Flow Cytometry by Mr. Sushilkumar Ramdas.

Flow cytometry, widely used in both research and clinical settings, allows for the detailed analysis of physical and chemical characteristics of cells or particles as they pass through a laser beam. The workshop aimed to provide a hands-on experience and theoretical insights into how flow cytometry works and how it can be applied to various fields such as immunology, cancer research, and microbiology. The workshop began with a detailed overview of the principles of flow cytometry, focusing on its ability to simultaneously measure multiple parameters of individual cells. Participants learned about the basic components of the flow cytometer, including the fluidics, optics, and electronics systems. Experts in the field explained the importance of sample preparation, the use of fluorochromes for cell labeling, and the significance of data interpretation in generating accurate and meaningful results. By understanding these foundational elements, attendees were better equipped to appreciate the versatility of the technology.



