

Scientific Advisory Committee

- **Dr. S.K. Jain**
Department of Biochemistry, HIMSR, Jamia Hamdard, New Delhi
- **Dr. Sujata Jaitely**
Department of Pathology, HIMSR, Jamia Hamdard, New Delhi
- **Dr. Mike Ormerod**
Surrey, UK
- **Dr. Manorma Bhargava**
Department of Hematology, Sir Gangaram Hospital, New Delhi
- **Dr. B.S. Dwarkanath**
Division of Radiation Biosciences, INMAS, Delhi
- **Dr. Ashok Mukhopadhyaya**
Department of Reproduction, Development & Cell Biology, NII, New Delhi
- **Dr. Sunita Saxena**
NIOP, New Delhi
- **Dr. Arvinder Singh**
Human Diagnostics GmbH, Gurgaon
- **Dr. Rajiv. K. Saxena**
South Asian University, New Delhi
- **Dr. Naveen Khanna**
Mammalian Biology, ICGEB, New Delhi
- **Dr. S.N. Das**
Department of Biotechnology, AIIMS, New Delhi
- **Dr. Ritu Gupta**
Laboratory Oncology Unit, Dr. BRAIRCH, AIIMS, New Delhi

Supported by



Patron

Dr. G.N. Qazi, Vice-Chancellor, JH

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Dr. S. Raisuddin, JH

Dr. Paresh Jain, BD

Joint Organizing Secretaries

Dr. Suhel Parvez, JH

Mr. Dharmendra Tripathy, BD

Treasurers

Dr. Nidhi, JH

Ms. Chetna Sethi, BD

Registration

- Eligibility:** Candidate should be routinely performing at least 4-6 color flow cytometric assays.
- Seats:** 20 participants*
- Registration Fee:** **Rs. 3000** (Students doing Masters/PhD/MD or post-doctoral fellows)
Rs. 5000 (Staff and Scientists from academic institutes and hospitals)
Rs. 8000 (Staff of Private/Corporate organizations)

Last date of Registration: October 15, 2014

* We have kept a provision of "Observer" category for Students, if we are not able to accommodate them due to limited number of 'participant' seats. 'Observers' will be refunded 50% of the registration amount. They will be able to attend all lectures, tutorials and discussion sessions except the lab sessions in front of the instrument. They will also get the workshop registration kit including the lab manual.

15th INDO-US FLOW CYTOMETRY WORKSHOP

Advanced Workshop on Multicolor Flow Cytometric Immunophenotyping

October 27-28, 2014

BD-JH FACS™ Academy
Jamia Hamdard (Hamdard University)
New Delhi



Jamia Hamdard

Organizing Secretariat:

BD-JH FACS™ Academy
3rd Floor, Science Block, Jamia Hamdard (Hamdard University), Hamdard Nagar,
New Delhi-110062, India
Phone: +91-11-26059688 Extn: 5568, 5560, 5478 (JH), 29968338 (BD-JH FACS™ Academy)
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International Society for Advancement of Cytometry

Jamia Hamdard

Jamia Hamdard is a Health Science University. It got the Deemed to be University status by the HRD Ministry in 1989. Over the years, Jamia Hamdard has emerged as an outstanding institution of higher learning with distinct and focused academic programs in Pharmacy, Basic Sciences, Medical Science and allied disciplines including Nursing, Physiotherapy and Occupational Therapy, besides contributing to higher education in Information Technology, Computer Applications and Business Management. In 2011 with approval of Medical Council of India, Jamia Hamdard started undergraduate program in medicine (MBBS). The associated hospital facility have also been upgraded to meet high standards. The departments of the University are equipped with state of the art facilities and publish hundreds of papers every year in peer reviewed journals of international repute. Research projects worth millions of rupees have been sanctioned and completed by the University. The University has been accredited two times in 'A' category by NAAC.

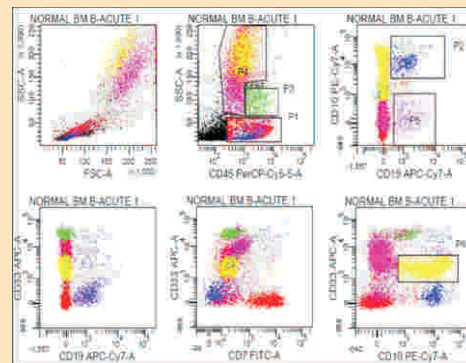


Indo-US Flow Cytometry Workshops

Indo-US Flow cytometry workshops were initiated in 2001 to teach laser flow cytometry methods and applications. Generally held once a year these workshops provide a unique opportunity to learn fundamental concepts of flow cytometry, and its diverse applications in life science research and clinical diagnostics from internationally renowned flow cytometry experts. This year, Indo-US flow cytometry workshops, organized under the aegis of ISAC's Live Education Task Force and The Cytometry Society-India, are being held in five different venues in New Delhi (AIIMS, Jamia Hamdard and ILBS) and Lucknow (BBAU and SGPGI); each site focusing on a specific aspect of flow cytometry applications.



About the Workshop



Ability to simultaneously examine several cellular parameters at a single cell level allows us to unravel cellular and functional heterogeneity and provides novel insights into systems biology in health and disease based on the phenotypic signatures of the sub-populations. Over the last decade, there have been significant advances in flow cytometry instrument design and fluorochrome dye chemistry bringing 8-18 color analysis capability within the easy reach of many, and close to 30-color immunophenotyping at the cutting edge of the technology. While offering a huge

potential in terms of analytic capabilities, these multicolor assays can pose a formidable challenge to assay design and standardization.

A two-day advanced workshop on multicolor flow cytometric immunophenotyping' will be held at BD-JH FACS™ Academy at Jamia Hamdard (Hamdard University), New Delhi from October 27-28, 2014.

The intent behind this workshop on multicolor immunophenotyping is to provide an opportunity to relatively more advanced users of flow cytometry to become familiar with the dynamics and nuances of designing, validating, standardizing and analyzing a multicolor assay.

Faculty

- **Dr. Pratip K. Chattopadhyay**
Vaccine Research Center, National Institute of Health, Washington DC, USA
- **Dr. Brent Wood**
Hematopathology Section, University of Washington, Seattle, USA
- **Dr. D.K. Mitra**
Department of Transplant Immunology, AIIMS, New Delhi, India
- **Dr. John Wotherspoon**
BD Biosciences, Singapore
- **Dr. Paresh Jain**
BD Biosciences, India

BD JH FACS™ Academy

BD JH FACS™ Academy is an Industry-Academic collaboration between BD Biosciences and Jamia Hamdard to offer basic and advanced training, workshops and seminars in flow cytometry for both research and clinical applications. The facility is equipped with a comprehensive range of modern flow cytometers including the BD FACSAria™, BD™ LSR II, BD FACSCalibur™, BD FACSVerser™ and BD Accuri™ C6.



15th INDO-US FLOW CYTOMETRY WORKSHOP
Advanced Workshop on Multicolor Flow
Cytometric Immunophenotyping

October 27-28, 2014

BD-JH FACS™ Academy, Jamia Hamdard (Hamdard University), New Delhi

Proposed Scientific Programme

October 27, 2014 (Monday)

08.00-09.00 AM	Registration
09.00-10.15 AM	Inaugural Session Address by Dr. G.N. Qazi and Dr. Awtar Krishan
Keynote Address	Past, Present and Future of Cytometry Dr. Pratip Chattopadhyay Chairpersons : Dr. D.K. Mitra, Dr. Renu Saxena
10.15 – 10.45 AM	High Tea
11.00- 13.00 PM	Workshop Session 1 (Instrument Variable) Instrument Configuration, Resolution, Performance Characteristics, Cytometer Setup and Tracking (CS & T), Setting Baseline PMT Voltages, Inter-instrument Standardization Lab: Defining Configuration, Laser Delay, Area Scaling, Setting Baseline PMT Voltages (2.5 SDen Method)
13.00- 14.00 PM	Working Lunch
14.00- 16.30 PM	Workshop Session 2 (Reagent Variable: Fluorochromes) Spectral Characteristics, Brightness (Stain Index), Spectral Spillover and Spread (Spill Index, Spread Index) Compensation (Cell-Based, Bead-Based) Lab: Spread Index, Compensation (Generic and Label Specific)
16.30-17.00 PM	Tea
17.00- 18.30 PM	Workshop Session 3 (Reagent Variable: Antibodies) Antigen-Antibody Interaction, Titration, Antigen Density, Non-specific Background, Blocking Buffers, Viability Dyes Lab: Antibody Titration
19.30 – 22.00 PM	Dinner

October 28, 2014 (Tuesday)

- 08.30 – 09.00 AM Review of Day 1
- 09.00-10.30 AM Workshop Session 4 (Panel Design and Validation)**
Experiment Design and Analysis Strategies, OMIPs
Panel Design: Step by Step (6C, 8-10C, 12-14C)
Fluorescence Minus One (FMO) Controls
[Lab: Listmode Data Based Discussion on Troubleshooting Panels](#)
- 10.30 – 11.00 AM Tea
- 11.00 - 13.30 PM Workshop Session 5 (Application Specific Panel Design)**
Research (T/B/NK/Mono/DC-subsets); Clinical (MDS panels)
Break-off Groups: Design your Panels
De-Brief and Report back
- 13.30- 14.30 PM Working Lunch
- 14.30 - 16.30 PM Workshop Session 6 (Forensics and Troubleshooting)**
Case Studies
Open Hour Discussion
- 16.30-17.00 PM Tea
- 17.00- 18.30 PM Valedictory Session**
Assessment, Feedback, Certificate Distribution



Jamia Hamdard



International Society for Advancement of Cytometry

Venue:

BD-JH FACS™ Academy

3rd Floor, Science Block, Jamia Hamdard (Hamdard University), Hamdard Nagar,
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ज्ञान-विज्ञान विमुक्तये
UGC

Supported by



BD Biosciences

Advanced Workshop on Multicolor Flow Cytometric Immunophenotyping

BD-JH FACS™ Academy, Jamia Hamdard, Hamdard Nagar, New Delhi



Jamia Hamdard

October 27-28, 2014

(Last date of Registration: October 15, 2014)



REGISTRATION FORM

Application Category:
(Please select as applicable)

- Students doing Masters/PhD/MD or post-doctoral fellows
 Staff and Scientists from academic institutes and hospitals
 Staff of Private/Corporate organizations

PERSONAL DETAIL

Name: _____

(in capital letters and as you would like it to be written on the certificate)

Gender: _____ Title (Prof./Dr./Mr./Ms.): _____ Designation: _____

Institution/Lab: _____

City: _____ Pin Code: _____

Tel (Landline): _____ Tel (Mobile): _____

Email: _____

OTHER DETAIL

*Will you need accommodation in Jamia Hamdard Scholars' House? YES NO

Are you routinely performing at least 4-6 color flow cytometric assays? YES NO

Details of current flow cytometry usage: _____

For those applying in Student's Category

Supervisor's Name: _____ Mobile: _____

Email-id: _____

® Will you like to be considered for registration as 'Observer' in case there is no vacancy in the regular category? YES NO

PAYMENT DETAIL

Amount Paid: Rs. 3000 Rs. 5000 Rs. 8000

**Cheque/DD Number: _____ Date: _____

Bank: _____ Branch: _____

Signature of the applicant: _____

Date: _____

*Limited accommodation is available at Jamia Hamdard Scholars' House at the applicable tariff. Detail will be provided on request.

**Crossed Cheque/ DD should be made in favor of "Jamia Hamdard" payable at New Delhi.

® If registered under Observer category, 50% amount will be refunded during the course.

Registration form without registration fee shall not be considered.

For further detail and correspondence please contact

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