

ORGANIZING COMMITTEE

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Dr Debasis Biswas
Prof. & Head, Dept. of Microbiology

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Medicine
Mr Dipesh Kale
Senior Research Fellow, Dept. of Microbiology
Ms Priyal Gupta
PhD Scholar, Dept. of Microbiology

Logistic Team

Dr Diya Namdeo
Research Scientist-II, Regional Virology Lab
Dr Khadija Mehdi
Scientist B, Regional Virology Lab
Dr Ashwini Kumar Yadav
Research Assistant, Regional Virology Lab
Ms Apoorva Nema
Research Assistant, Regional Virology Lab

Hands-on Basic Flow-Cytometry Workshop to Advance Research in Infectious Diseases 21-22nd January 2023



SARDAR VALLABH BHAI
PATEL BHAWAN
AIIMS BHOPAL,
BHOPAL 462020
<https://www.aiimsbhopal.edu.in>



TARGET AUDIENCE

- Early career faculty from universities/colleges and MD/PhD students
- Workshop is limited to 15 participants

MODE OF SELECTION

- Selection of participants will be done on first-cum-first served basis. You can register for the workshop by using the link below
<https://forms.gle/terjyomvXbfYcBhx6>
- Registration fees for participation in the workshop is Rs. 2000/- (inclusive of course material, lunch, tea etc.)
- The last date for registration is on or before **15/01/2023**
- The registration fees are to be paid ONLY through online bank transfer to:
Internal Imprest Account Dept. of Microbiology
AIIMS Bhopal. Account no. **45340100002238**
Bank of Baroda, AIIMS Bhopal Branch. IFSC: **BARB0AIIMSX** (5th character is zero)
- Participants need to arrange travel and lodging on their own. No on-campus accommodation will be provided.
- For any queries please contact to the Organizing Secretary at snema.microbiology@aiimsbhopal.edu.in

COURSE CONTENTS

Day-1: 21st January 2023

8:30 AM-9:00 AM	Registration
9:00 AM-9:30 AM	Inauguration, Overview of workshop and Introduction of participants
Theme 1: Know Your Flow Cytometer	
9:30 AM-11:00 AM	Basics of Flowcytometry and the parts of the Flow Cytometer (principles and instrumentation)
11:00 PM-1:00 PM	Practical Demonstration: Components and Operation (including routine checks of performance) A) Basic Instrument set-up, B) Cleaning procedure of machine
1:00-2:00 PM	Lunch
Theme 2: Know Your Immune Cells	
2:00 PM-2:30 PM	Immune Cell Population and their markers
2.30 PM - 4.30 PM	Hands-on training in Peripheral Blood Mononuclear Cell Isolation and discussion
4.30PM - 6.00 PM	Practical session on immune cell surface staining and Sample preparation and acquiring in Flow cytometer



Day-2: 22nd January 2023

Theme 3: Know designing of your Multiplex Panel	
9:00 AM-10:00 AM	Overview of multicolor panel design and how to combine multiple parameters in one experiment
10:00 AM -11:00 AM	Choice of right fluorochromes and antibodies, Spectral overlap, Voltage settings, Importance of experiment, data acquisition and controls.
11:00 AM-1:00 PM	Compensation in multicolour assays: Significance of compensation and how to perform it
1:00 PM-2:00 PM	Lunch
Theme 4: Know flow-cytometric analysis of your cytokine-secreting cells	
2:00 PM- 4:00 PM	Theoretic overview and practical session on intracellular cytokine staining in T cell subsets
4:00 PM- 6:00 PM	Introduction to data analysis software (FlowJo), interpretation and data presentation
6.00 PM- 6:30 PM	Training feedback and valedictory