



## Hands-on training on Flowcytometer: Detection of molecular markers (DNA and Protein) in cancer research

To be conducted by

**ICMR-National Institute of Cancer Prevention and Research (NICPR)**  
Sector 39, Noida, Uttar Pradesh - 201301  
(NICPR website: <https://nicpr.org/>, ICMR website: <https://main.icmr.nic.in/>)

Sponsored by

**Indian Council of Medical Research (ICMR), Department of Health Research (DHR), Ministry of Health & Family Welfare, Government of India**  
From 23<sup>rd</sup> to 25<sup>th</sup> April, 2024

About ICMR-NICPR	About the Course
<p>National Institute of Cancer Prevention and Research (NICPR) was initially established as Cytology Research Centre (CRC) by the Indian Council of Medical Research (ICMR) in 1979 and was elevated to the level of Institute in 1989. Its mandate was broadened to carry out research in cancer prevention and was renamed as National Institute of Cancer Prevention and Research in 2016.</p>	<p>The workshop has been designed for capacity building in the field of cellular and molecular biology and enhancement of awareness for the utilization of flowcytometer by the researchers. The workshop will provide complete practical knowledge to the participants from sample preparation to data analysis and interpretation of data. The participants will be trained to handle the cell culture-cancer cell lines during sample preparation for flowcytometer. The workshop will be a complete package for flowcytometer utilization in the field of cancer and allied sciences.</p> <p><b>Subjects to be covered:</b></p> <ul style="list-style-type: none"> <li>• Advances in cancer research</li> <li>• Fundamentals of flow cytometry and its uses in Cancer and allied Research</li> <li>• Biomarkers in Cancer Research: Immuno-response in cancer biology by flowcytometry</li> <li>• DxFlex Flow cytometer instrument overview: Demo of DxFlex flowcytometer, Component of Flowcytometer, Quality Control, Basics of Software, consumables and accessories</li> <li>• Choice of fluorochromes and sample preparation, panel designing and gating strategies</li> <li>• Hands-on for sample preparation for cell apoptosis assay, Blood cell profiling, and cell cycle assay.</li> <li>• Data analysis and interpretation: Gating and data presentation</li> </ul>

### Who Can Apply

- Registered PhD Students/Post-Doctoral/MBBS/MD/BDS/MDS/AYUSH/Project fellows
- Faculty/Scientist of Medical colleges, Colleges/University/Model Rural Health Research Units (MRHRUs), Multidisciplinary Research Units (MRUs).
- **Desirable:** Please provide brief utilization of the Flowcytometry for your research work

### Registration Details

1. Please submit your application form using this link- [https://docs.google.com/forms/d/e/1FAIpQLScsu\\_imYnjbwp7WuPq1oq0cd00z\\_MhXAxhkVdjcz\\_Xw3-cndA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLScsu_imYnjbwp7WuPq1oq0cd00z_MhXAxhkVdjcz_Xw3-cndA/viewform?usp=sf_link)
2. Last date of application for workshop - 25/03/2024
3. A maximum of 20 participants will be enrolled.
4. Candidate will be selected by a committee based on per-specified criteria and informed by 28/03/24.
5. Selected candidates will be informed on email by [flowcytometer.dhr.workshop@gmail.com](mailto:flowcytometer.dhr.workshop@gmail.com) and payment of Rs. 2000/- per participant.

- a) Account Number: 32383681687
- b) IFCS Code: SBIN0011486
- c) Bank name: SBI
- d) Last date to submit fees: 3/4/2024

**6. First 200 applications will be considered for evaluation first.**

- 7. Fees once submitted will not be refunded. Fees submitted after 03/04/24 will not be considered.
- 8. There is no facility of boarding/lodging and participants should make their own arrangements for the same
- 9. Travel also has to be arranged by the candidates themselves.
- 10. Please contact on 7988288306 or [flowcytometer.dhr.workshop@gmail.com](mailto:flowcytometer.dhr.workshop@gmail.com) for further details.

Organizer	Convener	Patron
<b>Dr Dinesh Kumar, Ph.D,</b> Scientist C, ICMR-NICPR, I-7, Sec. 39, NOIDA	<b>Dr. Mausumi Bharadwaj, Ph.D,</b> <b>FAScT, FNASc.</b> Scientist G, Division of Molecular Biology	<b>Dr. Shalini Singh,</b> Director and Scientist-G National Institute of Cancer Prevention and Research I-7, Sector-39,-201301

**Speakers**

- 1. Dr. Sujoy Ghosh, Professor, Deptt of Oral Medicine & Radiology, Maulana Azad Institute of Dental Sciences, MAMC Complex, New Delhi
- 2. Dr Dablu Lal Gupta, Assistance Professor, Department of Biochemistry, AIIMS, Raipur
- 3. Dr Deepak Kumar Rathore, Senior Research Scientist, Translational Health Science and technology Institute, Faridabad, Haryana
- 4. Dr Yogesh Verma, Stem Cells and Tissue Engineering, Scientist E, DRDO-INMAS, Timarpur, Delhi,
- 5. Dr. Pramod Kumar, Scientist C, ICMR-National Institute of Cancer Prevention and Research (NICPR), Sector 39, Noida, Uttar Pradesh – 201301
- 6. Dr Dinesh Kumar, Scientist C, ICMR-National Institute of Cancer Prevention and Research (NICPR), Sector 39, Noida, Uttar Pradesh – 201301
- 7. Dr Anuj Kumar, Scientist C, ICMR-National Institute of Cancer Prevention and Research (NICPR), Sector 39, Noida, Uttar Pradesh – 201301