

Self Financed
Short Term Workshop on

**Flow Cytometry: Applications in
Research, Diagnostics and
Health Care Innovation
December 15-21, 2015**



**Centre for Medical Diagnostic and Research
Motilal Nehru National Institute of
Technology Allahabad
ALLAHABAD, 211004, India**



About the institute

Motilal Nehru National Institute of Technology Allahabad is an institute with total commitment to quality and excellence in academic pursuits. The institute has been granted the status of Institution of National Importance. It was established as Motilal Nehru Regional Engineering College (MNREC) in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh. MNREC was transformed into National Institute of Technology fully funded by Ministry of Human Resource Development, Gov. of India.

The institute offers B.Tech, M.Tech, Ph.D, M.C.A, M.B.A., (Mathematics and Scientific Computing) degrees in various disciplines of sciences, engineering, technology and humanities.



About CMDR

The current scenario of health in the region is not overwhelming and requires a comprehensive and holistic approach to handle such conditions. In most of the cases, the health problems become more gravely and unmanageable because of the unavailability of diagnostic expertise and proper research facilities. With the advent of many new diseases, a high end diagnostic facility was required to meet the regional challenges. The "Centre for Medical Diagnostic and Research (CMDR)" has been established with an aim not only to provide answers to many unanswered problems, but also help in providing proper diagnostic solutions to stakeholders. This effort will not only help the society but also provide knowledge to the future generation to meet global medical challenges.

Mission

The Centre for Medical Diagnostics and Research (CMDR) envisions providing routine and critical diagnostic services as well as to develop skills of scientific research to solve complex medical issues with advanced diagnostic facility under stringent ethical regulation and good laboratory practices.

The city of Allahabad

Allahabad is the sacred city of India where three holy rivers namely Ganga, Yamuna and invisible mythological Saraswati meet. The famous Kumbh is organised here after every twelve years where hundreds of million people gather for holy bath. The Allahabad has been famous place of learning since long due to its world famous academic institutions.

About the course:

Objective: The workshop intends to provide up-gradation of knowledge and skills for research scholars/faculties/scientists involved in active research. Flow cytometry is used to phenotype various cell subsets from diverse sample sources. The advantage of using flow cytometry is immense ranging from high-end research to delicate molecular diagnosis based on phenotyping of cells. This technique phenotypes as well as delineates various functions of the cells like phagocytosis, fusion of phagosome lysosome fusion, apoptosis, proliferation etc. Besides its significant role in research dealing with immunology, animal sciences and medical biotechnology, the workshop will significantly contribute in fields like plant sciences, microbiology, environmental sciences, intellectual property rights, patents and various health care innovations. This technique will provide in-depth practical knowledge of the field as well as its wide application in research and diagnosis.

The seven days short term workshop will include lectures on the various areas of flow cytometry including instrumentation, application as well as future advancement. In addition, hands-on training on the instrumentation will be a key feature of this workshop.

Short term course topics

- Overview of Flow cytometry
- Instrumentation and its calibration
- Preparation of samples
- Phenotyping of immune cells including rare subsets
- Analysis of DNA content
- Analysis of apoptotic cells
- Characterization of cellular function
- IPR in health care section and medical innovation
- Any other relevant area

Duration: Seven days workshop from December 15- 21, 2015.

Number of seats: 20

Accommodation: The participants may be provided accommodation in the institute guest house and/or hostel depending on the availability, on payment basis. Accommodation can also be booked in nearby hotels directly or through organizers.

For further enquiries contact:

shiveshs@mnnit.ac.in
ambakrai@mnnit.ac.in

Food: Lunch and tea will be provided to the participants during the course of workshop (charges are included in the registration fee).

Eligibility: Undergraduate, post graduate, research scholars and faculty/scientist in biotechnology, applied biological sciences, bioinformatics, life sciences, medical sciences, environment sciences, pharmaceutical science or related disciplines

Mode of payment : Participants can make payment via DD in favour of SFW-FC, payable at Allahabad OR Deposit the registration fee online in Account No **718400301000182** (current account) of Vijaya Bank MNNIT Allahabad (Branch Code: 007184; MICR Code: 211029004; IFSC Code: VIJB0007184)

REGISTRATION FORM

Personal Details:

Title(Mr./Ms./Mrs./Dr.):

Gender(Male/Female):

Name:

Date of Birth: Age:

Academic Details:

Designation:

Qualification:

College/Institute/University:

Department:

City..... State:

Contact Details:

Address:

.....

.....

.....Pin:

Ph./Mob.:

Email:

Accommodation Required: Yes/No

Payment details:

Demand Draft No: Dated:

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Drawn

on.....

Total Amount in INR.....

OR

Online registration fee details

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(Attach the DD or online payment receipt with form)

Declaration:

I am interested in attending this training course. All the information provided are correct.

Signature of Applicant

Note:

- Incomplete or registration form without demand draft shall be rejected

- A separate registration form should be used for every delegate
- Registration fee is non-refundable

ORGANIZING COMMITTEE

Patron & Chairman: Prof. P.Chakrabarti

Convener : Dr. Shivesh Sharma

Coordinator : Dr. Ambak Kr. Rai

Co-coordinator: Dr. Vishnu Agarwal

Treasurer: Dr. Manisha Sachan

Advisory Committee : Core and Technical Committee, CMDR

Registration Fee

Students/Research Scholar : Rs 1,500

Faculty/ Scientist: Rs. 2,500

Registration fees includes

- All the lectures
- Lunch and refreshments
- Program kit

How to reach MNNIT Allahabad: the city of Allahabad is well connected with all parts of India by daily train, buses and flights.

For more information: <http://www.mnnit.ac.in>

Contact:

Dr. Shivesh Sharma

Convener: SFW-FC

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