

NECHRI
Invites You

ICMR Training Workshop on
**DIAGNOSIS
IN ONCOLOGY USING
FLOW CYTOMETRY
&
REAL TIME PCR TECHNOLOGY**

6th to 8th December, 2019



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INDIAN COUNCIL OF
MEDICAL RESEARCH
Serving the Nation since 1971



Organised by

**North East Cancer Hospital & Research Institute
Trust For Education & Training in Cytometry
Flowcytometry Solutions**

Sponsored by

**Indian Council of Medical Research (ICMR),
New Delhi**

Venue

**EMIL GRUBBE AUDITORIUM, NECHRI,
11th Mile, Amerigog, Jorabat, Guwahati-23**

Contact us at: +91-8638843914, +91-6001494886, +91-8876068382

Email id-nechriresearch19@gmail.com

*** MCI Credit Hours 4/6 will be awarded ***

For more details: www.nechri.in

Who we are?

Established in 2008, North East Cancer Hospital & Research Institute has emerged as the most comprehensive and leading cancer hospital in North East India. Its therapeutic and diagnostic facilities, according to several eminent experts are comparable with national level hospitals. These experts as well the dignitaries belonging to various professions and field of activities have expressed the unanimous view that there is no need for patients of the state to go to metropolitan towns for the treatment of the disease as facilities for its complete treatment are available in this institute in excellent form. The state government has also acknowledged this fact. The patients and their family members have also expressed full satisfaction.

GPS Location: 3VWC+J7 Jorabat, Assam
Phone: +91 8638843914, +91 6001494886, +91 8876068382
Email: nechrresearch19@gmail.com
Web: <http://nechri.in/>



Dated: 6th, 7th & 8th December, 2019
Venue: Emil Grubbe Auditorium,
North East Cancer Hospital and Research
Institute, 11th Mile, Amerigog, Jorabat,
Guwahati-781023, Assam, India



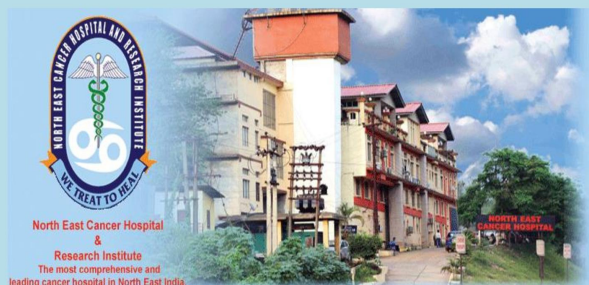
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TETC
Trust for Education and Training in Cytometry

FLS FLOWCYTOMETRY™
SOLUTIONS
Helping innovations

ICMR Training Workshop on Diagnosis in Oncology using Flow Cytometry and Real Time PCR Technology



Who can attend?

**Pathologist, Microbiologist, Hematologist, Biochemist, Research
Scholar, Faculties, Laboratory Scientist.**

**Venue: Emil Grubbe Auditorium,
North East Cancer Hospital and Research Institute,
11th Mile, Amerigog, Jorabat, Guwahati-781023, Assam
(SIRO Certified Research Institute)**

Duration: 6th- 8th December, 2019

Workshop expected to contribute

Molecular diagnostics are increasingly used to guide patient management, from diagnosis to treatment, particularly in the fields of cancer, infectious disease, and congenital abnormalities. The increased demand for genetic and genomic information has led to the rapid expansion of molecular techniques within clinical laboratories.

Flow cytometry is semi-automated study of antigen profile of cells using the Scatchard principle of antigen-antibody binding and fluorochrome-based detection systems. Flow cytometric evaluation of cellular proteomics has become an integral part of the laboratory diagnosis and classification of hematopoietic neoplasms. Recent technical advances in lasers, monoclonal antibodies, fluorochromes, and computer-based color compensation algorithms have expanded the usefulness of flow cytometry. Detection of minimal residual disease by flow cytometry in leukemia's and lymphomas is incorporated in many treatment protocols

Molecular diagnostics is the outcome of the fruitful interplay among laboratory medicine, genomics knowledge, and technology in the field of molecular genetics, especially with significant discoveries in the field of molecular genomic technologies. All these factors contribute to the identification and fine characterization of the genetic basis of inherited diseases which, in turn, is vital for the accurate provision of diagnosis.

As molecular diagnostics continues to expand, we discuss its applications using flowcytometry and RT PCR in emerging precision medicines in oncology.

Organizing Committee:



Dr. Gazi Naseem Ahmed
(Organizing Secretary)



Dr. Alok Kumar Jain
(Workshop Coordinator)

PATRON:

Dr. M. N. Baruah, Managing Director, NECHRI

CONVENOR:

Dr. Rekha Gour, Scientist, Trust for Education and Training in Cytometry (TETC), Mumbai, India.

ORGANIZING SECRETARY

Dr. Hemant Agrawal, Director, Flowcytometry Solutions Pvt Ltd, Jaipur, India.

PROGRAMME COORDINATOR:

Dr. I. Longkumer, Biochemist, NECHRI.

FACULTIES

1. **Dr. Rekha Gour**, Scientist. Trust for Education and Training in Cytometry (TETC), Mumbai, India.
2. **Dr. Hemant Agrawal**, Director, Flowcytometry Solutions Pvt Ltd, Jaipur, India.
3. **Dr. Monica Singh**, Consultant Pathologist, Strand Lifesciences, Delhi, India.
4. **Dr. Debasish Borbora**, Assistant Professor, Department of Biotechnology, Gauhati University, Assam, India.
5. **Dr. Rajesh Saha**, Senior Field Application Specialist, Bio-Rad Laboratories India (Pvt) Ltd, Kolkata, India.

REGISTRATION

- ❖ Registration fee is Rs.1000/- (One Thousand) only
- ❖ Last Date of Registration is 28th November, 2019
- ❖ Duly filled registration forms should be sent to: nechriresearch19@gmail.com
- ❖ Certificates will be provided upon successful completion of the workshop with MCI Accredited Credit Points.
- **Participants are requested to arrange their own travelling and accommodation.**



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Helping innovations

**ICMR TRAINING WORKSHOP
ON
“DIAGNOSIS IN ONCOLOGY USING FLOW CYTOMETRY AND REAL TIME
POLYMERASE CHAIN REACTION (RT PCR) TECHNOLOGY”**

Venue: Emil Grubbe Auditorium,
North East Cancer Hospital and Research Institute,
11th Mile, Amerigog, Jorabat, Guwahati-781023, Assam
Dated on 6th, 7th & 8th December, 2019

AGENDA

PROGRAMME		
Times/Days	Activity/Session	Speakers
<u>DAY 1</u>		
09:00-11:00 am	<i>Introduction to Flow Cytometry and its Clinical Applications</i>	Dr. Hemant Agrawal
11:00-11:15 am	<i>Tea Break</i>	
11:15 am-01:00 pm	Lab: <i>Instrument startup and demonstration of instrument setup; Validation and Quality Control. Template preparation for data acquisition, PMT Voltage setting, Threshold etc. Preparation and processing of sample by Stain Lyse wash method.</i>	Dr. Hemant Agrawal
01:00-02:00 pm	<i>Lunch</i>	
02:00-03:30 pm	Lab: <i>Antibodies Titration and Flurochrome Brightness (stain index). Multicolor Compensation set-up.</i>	Dr. Hemant Agrawal
03:30-03:45 pm	<i>Tea Break</i>	
04:00-05:30 pm	Lab Continues	

DAY 2 09:00-10:30 am	Panel selection for Diagnosis of Leukemias/Lymphomas? How to set up and validate a multicolor Flow Cytometry Experiment? Fluorochromes, Spectral Overlap and Compensation, Antibodies selection and their Titration, Experimental and Gating Controls etc	Dr. Monica Singh
	Tea Break	
10:30-10:45 am 10:45 am-01:00 pm	Lab: Sample Preparation for surface and intracellular staining. Acquisition and analysis	Dr. Hemant Agrawal Dr. Monica Singh
01:00-02:00 pm	Lunch	
02:00-03:30 pm	Lab: Leukemia and Lymphoma Data Analysis. Case based Studies with Hands on Analysis. Troubleshooting, discussion and Q&A	Dr. Monica Singh
03:30-03:45 pm 04:00-05:30 pm	Tea Break Lab: Flow data analysis continues	Dr. Hemant Agrawal
DAY 3 09:00-10:30 am	Overview of RT PCR, Instrumentations and Clinical Applications	Dr. Debasish Borbora Dr. Rajesh Saha
10:30-10:45 am 10:45 am-01:00 pm	Tea Break Lab: DNA Extraction, Quantitation Methods and Analysis	Dr. Debasish Borbora Dr. Rajesh Saha
01:00-02:00 pm 02:00-03:00 pm	Lunch Molecular Lab Design, QA/QC Considerations	Dr. Debasish Borbora Dr. Rajesh Saha
03:30-03:45 pm 03:45-04:45 pm	Tea Break Lab: data analysis continues	Dr. Debasish Borbora Dr. Rajesh Saha
04:45-05:30 pm	Quiz, Valedictory and feedback	



REGISTRATION FORM
DHR-ICMR TRAINING WORKSHOP ON
“DIAGNOSIS IN ONCOLOGY USING FLOW CYTOMETRY AND
REAL TIME POLYMERASE CHAIN REACTION (RT PCR) TECHNOLOGY”

(* indicates mandatory)

*Full Name: _____

*Gender: _____ *Age: _____ *Designation: _____

*Institution: _____

*Address: _____

*Zip/Postal Code: _____ *Contact Number: (_____) _____

*Email: _____

*Registration No.(For Doctors): _____

*Field of Interest: _____

*Food Preference: ☐ Veg ☐ Non-Veg

REGISTRATION FEE:

Rs. 1000.00 (One Thousand Only) for each participant.

WIRE TRANSFER PAYABLE TO:

BANK NAME	AXIS BANK
ACCOUNT NAME	NORTH EASTERN CANCER TRUST
ACCOUNT NUMBER	913020013225877
IFSC	UTIB0000140
BRANCH	GUWAHATI (AS)

PAYEE DETAILS:

*Done by: _____ *Transaction/Reference No.: _____

Kindly sent the completed scanned registration form& payment receipt copy to:

nechriresearch19@gmail.com

AND/OR



+91 8876068382