



# Wet Workshop on Flow Cytometry

## Clinical and Research Application

### TCS - 2012

Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST)  
and Regional Cancer Center (RCC), Thiruvananthapuram, Kerala, India

7 - 10 May, 2012

10 April 2012

#### Patron

Prof. K. Radhakrishnan  
Director, SCTIMST

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Dr. G. S. Bhuvaneshwar  
Head, BMT Wing,  
SCTIMST

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Dr. Rekha Nair  
Dr. TV. Kumary  
Dr. Annie John

#### Organizing Secretary

Dr. Anil Kumar PR

#### Members

Dr. Priya Jacob  
Dr. Anugya Bhatt  
Mr. Renjith P. Nair  
Mr. Ranjith S.

### Invitation for participation

The Sree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum, and the Regional Cancer Center, Trivandrum are jointly organizing wet lab workshop on “Applications of Flow Cytometry in Basic Research and Clinical Diagnosis” during May7-10, 2012 on behalf of The Cytometry Society-India (TCS-India).

There will be lectures on basic topics which will be delivered at SCTIMST. Research students will be taught wet labs in the same place; the clinical participants will move to the flow cytometry facility of the department of Pathology at RCC for carrying out hands-on experiments.

It is with great pleasure we invite you to participate in this workshop.

- Organizing team

Flow Cytometry Workshop @ Trivandrum  
Organized by SCTIMST & RCC

Day 1, 7 <sup>th</sup> May 2012 9.00-13:00 h (BMT Wing, SCTIMST)		
9:00-9:15	Opening Remarks	
9:15-11:00	Introduction to flow cytometry: (a) Basics of Instrumentation Dr. Krishnamurthy NCBS, Bangalore	
11:00-11:30	Tea Break	
11:30-13:00	Introduction to flow cytometry: (b) Threshold, pulse processor, color compensation, linear//log amplification Dr. Krishnamurthy NCBS, Bangalore	
13:00-14:00	Lunch	
14:00-19:00	Wet Labs	
	<b>Basic group @ SCTIMST</b>	<b>Clinical Group @ SCTIMST</b>
14:00-15:00	Collection of signals	<b>Common for both groups at SCTIMST</b>
15:00-16:00	Threshold	
16:00-17:00	Color compensation using beads (H.Krishnamurthy)	
17:00-19:00	Demo of different machines & Recap	
Day 2, 8 <sup>th</sup> May 2012 9.00-13:00 h (BMT Wing, SCTIMST)		
9:00-10:00	Recap of previous day	
10:00-11:00	Introduction to Immunocytometry Dr. H. Krishnamurthy a. Selection of the antibody conjugates b. Antibody Titration	
11:00-11:30	Tea Break	
11:30-19:00	<b>Basic group @ SCTIMST</b>	<b>Clinical Group</b>
11:30-13:00	Introduction to Cell CycleAnalysis (H. Krishnamurthy) a. Quality Control b. Cell cycle & Viability assay	Immunophenotyping of Acute Leukemia (Dr. Rekha Nair)
13:00-14:00	Lunch	Lunch
14:00-16:00	Multi-color labeling	Wet Labs : Acute leukemia immunophenotyping a. Sample Preparation b. Data acquisition & analysis c. Case Studies
16:00-18:00	Data acquisition & analysis (H. Krishnamurthy)	
18:00-19:00	Handling different equipments	
Day 3, 9 <sup>th</sup> May 2012 9.00-13:00 h (BMT Wing, SCTIMST)		
	<b>Basic group @ SCTIMST</b>	<b>Clinical Group @ RCC</b>
9:00-10:30	Recap of previous day	Lecture on Flow cytometric evaluation of lymph nodes (Dr. Tina Dadu)
10:30-11:00	Tea Break	

11:00- 13:00	Cell proliferation analysis by PI & CFSE, and cycle analysis in live cells using new generation dye T.R. Santhosh Kumar, RGCB, Trivandrum	Wet Lab: Lymphoma Flow: Dr. Tina Dadu
13:00-14:00	Lunch	
14:00- 18:00	Wet Labs : Cell cycle (H.Krishna Murthy) a. Sample Preparation b. Data Acquisition & Analysis	Wet Labs : Lymphoma Flow: Dr. Tina Dadu
18:00-19:00	Handling different equipments	
Day 4, 10 <sup>th</sup> May 2012 9.00-13:00 h (BMT Wing,SCTIMST)		
	<b>Basic group @ SCTIMST</b>	<b>Clinical Group @ RCC</b>
8:00-13:00	Wet Labs (T.R. Santhosh Kumar) a. Proliferation b. Live cell cycle	9:00-10:30: MRD in Acute leukemia (Dr. Ritu Gupta)
10:30-11:00		Tea break
11:00- 13:00		Wet Labs : MRD in acute leukemia a. Sample Preparation b. Data Acquisition & Analysis Case Studies
13:00-14:00	Lunch	
14:00- 15:00	Re-cap of Basic flow cytometry	
15:00-16:00	Test &Evaluation	
16:00-17:00	Quiz (H.Krishnamurthy)	
17:00-18:00	Graduation Data backup Equipment handling	

**Equipments:**

FACS Aria (BD Science, USA)  
FACS Calibur (BD Science, USA)  
EPICS XL (Beckman Coulter, USA),  
GUAVA Easy Cyte HT (Millipore, USA)

Note: Clinical workshop is exclusively for those who have clinical degree

Send registration form and DD to      Dr. Anilkumar P.R.  
Organizing Secretary  
Flow Cytometry Wet Workshop  
BMT Wing, SCTIMST, Trivandrum-695012

**Wet Workshop on Flow Cytometry (May7-10, 2012)**  
**Application Form for Registration**

Name	
Address for correspondence	
Telephone number & E mail address:	
Do you need shared accommodation?	
Qualification (Note: Clinical workshop is exclusively for those who have clinical degree)	
Designation	
Work Experience (period and nature of job) (attach 1 page cv)	
Previous experience with flow cytometry	
Experience with cell culture if any:	
What do you expect to learn from this workshop?	
Signature of the applicant	
Signature of reporting officer	
Date	

- Course fee: Rs. 4000/- for 4 days; Course fee covers study material; cost of reagents for the listed experiments, hostel accommodation (shared), morning & evening tea, lunch and dinner from 7<sup>th</sup> to 10<sup>th</sup> of May.
- Advanced payment of registration fee is mandatory. There is no spot registration.
- Deadline for receipt of application: **April 23, 2012.**
- We shall screen the applications and inform the selected candidates by **April 25th**
- Selected participants may send DD for Rs.4000/- in favor of **The Cytometry Society (TCS), Trivandrum Chapter** payable at Trivandrum, before **April 30, 2012.**

**Contact details:**

Send scanned pdf file of the filled application form by E-mail to [tcstrv@gmail.com](mailto:tcstrv@gmail.com)

Send DD to

Dr. Anilkumar P.R.

Organizing Secretary, Flow Cytometry Wet Workshop

BMT Wing, SCTIMST, Trivandrum-695012