

# 10th Annual The Cytometry Society Meeting

## 28<sup>th</sup>-31<sup>st</sup> Oct 2017

### Program at a glance

#### 10<sup>th</sup> TCS Annual Meeting

<b>Theme</b>	<b>Cytometry and its Applications</b>	
<b>Dates</b>	<b>28<sup>th</sup> -29<sup>th</sup> Oct 2017</b>	
<b>Venue</b>	<b>AMC Hall, SCTIMST, Medical College Campus &amp; Auditorium II AMC</b>	
<b>Remarks</b>	<b>Common for all participants</b>	

#### Workshop (Begins on 29<sup>th</sup> Oct 2017 post Lunch, 2:00- 5:00PM)

<b>Theme</b>	<b>Application of flowcytometry in Health and Diseases</b>	
<b>Dates</b>	<b>29<sup>th</sup> - 31<sup>st</sup> Oct 2017</b>	
<b>Venue</b>	<b>AMC Hall, SCTIMST, Medical College Campus</b>	
<b>Remarks</b>	<b>Make your OWN CYTOMETER Common for all participants</b>	

#### Day 2 & 3 (30<sup>th</sup> Oct-31<sup>st</sup> Oct 2017, 9:00AM to 5:00PM)

<b>Basic Workshop</b>	<b>Stem cell Analysis, Data Analysis, Cell Cycle, Apoptosis, Cell Sorting, Compensation</b>	
<b>Venue</b>	<b>BMT WING, SCTIMST Poojappura &amp; RGCB</b>	
<b>Remarks</b>	<b>For Scientists/Researcher/Technicians/Scientific Staff from the Basic Science Background</b>	

#### Day 2 & 3 (30<sup>th</sup> Oct-31<sup>st</sup> Oct 2017, 9:00AM to 5:00PM)

<b>Clinical Workshop</b>	<b>Three Parallel Sessions Beginners Workshop- Leukemia and Lymphoma Diagnosis- Auditorium, RCC Advanced Workshop- B- ALL and AML -Minimal Residual Disease - Conference Hall, RCC Technical Workshop- Instrument Setup, Compensation , Titration - Discussion Room, RCC</b>	
<b>Venue</b>	<b>Regional Cancer Centre, Trivandrum</b>	
<b>Remarks</b>	<b>For Clinician and Technical/Scientific Staff in Clinical Labs/Hospitals/Institutes</b>	

#### 31<sup>st</sup> Oct 2017 (5:00-6:00PM)

	<b>Quiz, Feedback, Valedictory function Dr Krishnamurthy H &amp; Ms Rekha Gour</b>	
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# 10th Annual The Cytometry Society Meeting (Day -1)

28<sup>th</sup> October 2017

Time	Topic	Speaker
8:00 AM onwards	Registrations	
9:00 - 9:30	<i>Introduction to Flowcytometry</i>	Prof. Rajive Kumar, AIIMS, New Delhi
9:30 -10:00	<i>A Twist in the Tale</i>	Prof. Urmi Chatterji, Univ. of Calcutta, Kolkata
10:00 - 10:30	<i>Developmental stage dependent response to proliferation in Hematopoietic Stem Cells</i>	Dr. Satish Khurana, IISER, Thiruvananthapuram
10:30 - 11:00	Tea Break	
11:00 - 11:15	Corporate Talk	Beckman Coulter
11:15 -11:55	<i>Understanding haematological disorders via the flow path</i>	Dr. Amar Das Gupta, SRL, Mumbai
12:00 - 12:10	Corporate Talk	Becton Dickinson
12:15-12:55	<i>Design of curcumin delivery vehicle and tracking of drug influx using Flow Cytometer</i>	Dr. Lissy K Krishnan, SCTIMST, Thiruvananthapuram
1:00 - 2:00	Lunch Break & Poster Visit/ Corporate Exhibits	
2:00 - 2:30	Vendor Talks (Thermofisher/Genex/denovo software)	
2:30 - 3:00	<i>Ploidy analysis in Acute Leukemias using Flow Cytometry</i>	Dr. Neeraj Arora, Tata Medical Centre, Kolkata
3:00 - 3:15	Tea break	
3:15 - 4:45	OP 1 – 8 (7 minutes each + 1 min for questions) Oral presentations from selected abstract	8 min per abstracts
4:45 -5.30	TCS Best Paper Award Winners Presentation & Felicitatation Of Each Award Winner	12 min per paper , 5 min questions per paper and felicitatation
5:30 - 7:00	Poster Evaluation	
5: 30 – 7:00	EC meeting only for the EC members	

# 10th Annual The Cytometry Society Meeting (Day- 2)

29<sup>th</sup> October 2017

Time	Topic/Speaker and Sessions	Topic/Speaker and Sessions
	<b>Hall A (Clinical)</b>	<b>Hall B (Basic Science)</b>
9:00 - 9:45	Dr Brent Wood, Univ. of Washington, Seattle, WA, USA <i>Principles of immunophenotyping including lymphoid neoplasms</i>	Dr. Vainav Patel , NIIRH, Mumbai <i>Lessons in Immunity from HIV- Learning from flow</i>
9:45 – 10:30	Dr Sindhu Cherian, Univ. of Washington, Seattle <i>Reactive lymphoid populations in lymph nodes and tissues</i>	Dr. Vivek Tanvade, Ahmedabad Univ., Ahmedabad <i>Use of Flow cytometry in stem cell analysis</i>
10:30 -10:45	Tea Break	
10:45 - 11:15	<i>Challenging cases in Leukemia /Lymphoma immunophenotyping .</i> Coordinator : Dr. PG Subramanian	Dr. Santhosh Kumar , RGCB, Thiruvananthapuram <i>Genetically encoded fluorescent sensors for real time cell signaling studies by microscopy and flowcytometry</i>
11:15 - 12:00		Dr. Anis Larbi, A*STAR, Singapore <i>Flow approaches to understand immunological aging</i>
12:00 – 1:00	TCS Annual general Body meeting , Felicitatation & Vote of Thanks	
1:00 – 2:00	Lunch Break	
2:15 onwards	<b>Cytometry Workshops begins.....</b>	
7.00-10.00	Dinner at Kovalam	

# Cytometry Workshops begins.....29<sup>th</sup> Oct 2017(Day -2)

## Workshop (29<sup>th</sup> Oct 2017, 2:00-5:00PM)

Theme	<i>Basics of Flow cytometry and Make your own cytometer (MYO)</i>		
Faculty	Dr. Telford & Dr. H. Krishnamurthy		
Venue	AMC Hall, SCTIMST, Medical College Campus		
Remarks	Common for all participants		

## 30<sup>th</sup> October 2017, Day 3 (9:00AM to 5:00PM)

### Basic Science Workshop (30<sup>th</sup> Oct 2017 9:00AM-1:00PM)

For Scientists/Researcher/Technicians/Scientific Staff from the Basic Science Background

Venue: BMT WING, SCTIMST, POOJAPPURA, & RGCB

Lab Modules (LM)	LM 1	LM2	LM3	LM4
Theme	<i>Cell Cycle, proliferation and Apoptosis</i>	<i>Mesenchymal Stem Cells</i>	<i>Make your own cytometer wet lab</i>	<i>Single Cell genomics</i>
Faculty	Dr. H. Krishnamurthy Dr. Rekha Gaur	Dr. Vivek Tanavde	Dr. Telford	Dr. Anis Larbi

Lunch Break 1:00-2:00PM

### Basic Science Workshop (30<sup>th</sup> Oct 2017, 2:00PM-5:00PM)

For Scientists/Researcher/Technicians/Scientific Staff from the Basic Science Background

Venue: BMT WING, SCTIMST, POOJAPPURA, & RGCB

Lab Modules (LM)/Technical Session (TS)	LM 5	LM6	LM7	LM3
Theme	<i>Data Analysis</i>	<i>Cell Sorting</i>	<i>Multicolour flowcytometry</i>	<i>Make your own cytometer wet lab</i>
Faculty	Dr. H. Agarawal	Dr. Swapnil Walke	Dr. Ubaldo Barbosa	Dr. Telford

## 31<sup>st</sup> October 2017 Day 4 (9:00AM to 5:00PM)

### Basic Science Workshop (31<sup>st</sup> Oct 2017 9:00AM-1:00PM)

For Scientists/Researcher/Technicians/Scientific Staff from the Basic Science Background

Venue: BMT WING, SCTIMST, POOJAPPURA, & RGCB

Lab Modules (LM)	LM 1	LM2	LM4	LM5
Theme	<i>Cell Cycle, proliferation and Apoptosis</i>	<i>Mesenchymal Stem Cells</i>	<i>Single Cell genomics</i>	<i>Data Analysis</i>
Faculty	Dr. H. Krishnamurthy Dr. Rekha Gaur	Dr. Vivek Tanavde	Dr. Anis Larbi	Dr. H. Agarawal

Lunch Break 1:00-2:00PM

### Basic Science Workshop (31<sup>st</sup> Oct 2017, 2:00PM-6:00PM)

For Scientists/Researcher/Technicians/Scientific Staff from the Basic Science Background

Venue: BMT WING, SCTIMST, POOJAPPURA, & RGCB

Lab Modules (LM)/Technical Session (TS)	LM 6	LM7	TS2
Theme	<i>Cell Sorting</i>	<i>Multicolour flowcytometry</i>	<i>Compensation in Multicolor Flow Cytometry</i>
Faculty	Dr. Swapnil Walke	Dr. Ubaldo Barbosa	Dr. H. Agarawal

5:00PM to 6:00PM Quiz/Student feed back and evaluation & certificate distribution: Dr. H. Krishnamurthy and R. Gour

Students can opt for any four modules

# Clinical Workshops – Three parallel Workshops (Participants can choose any one)

30<sup>th</sup> October 2017, Day 3 (9:00AM to 5:30PM)

## Common for All Participants of Clinical Workshops (Technical, Beginners and Advanced ) 30<sup>th</sup> Oct 2017 (9:00AM-10:30PM)

Venue: Auditorium, Regional Cancer Centre, Thiruvananthapuram

9:00 - 9:30	<i>Clinical Applications of Flow Cytometry:</i> Dr Sumeet Gujral
9:30 - 10:00	<i>WHO Update on Leukaemia:</i> Dr Jayasudha A V
10:00 - 10:30	Tea

## Beginners Clinical Workshop

### Beginners Clinical Workshop (30<sup>th</sup> Oct 2017 10:30AM-1:00PM)

For Pathologists/ Haematologists/ postgraduate students who are beginners in flow cytometry and those who have started reporting on Acute Leukemias and CLPD's, but wish to fine tune their immunophenotyping skills

Venue: Auditorium, Regional Cancer Centre, Thiruvananthapuram

Theme of the Day	Acute Leukaemia
Coordinators	Dr. Anil Handoo & Dr Ritu Gupta
10:30 - 11:15	<i>Why should we do Flow cytometry in Acute Leukaemias?</i> Dr.Sanjeev K Gupta
11:15 - 12:00	<i>Flow Panel designing: How and How much to do?</i> Dr.TinaDadu
12:00 - 12:45	<i>What's new in Acute Leukaemia Immunophenotyping?</i> Dr Ritu Gupta
12:45 - 1:00	Q & A; Discussion

Lunch Break 1:00-2:00PM

### Beginners Clinical Workshop (30<sup>th</sup> Oct 2017 2:00-5:30PM)

2:00 - 3:00	<i>Interesting Cases of Acute Lymphoblastic Leukaemia</i>
3:00 - 5:00	<i>Acute Myeloid Leukaemia: Case Discussion</i>
5:00 - 5:30	<i>Mixed Phenotype Acute Leukaemia- challenges in diagnosis</i>

## Advanced Clinical Workshop

### Advanced Clinical Workshop (30<sup>th</sup> Oct 2017 9:00AM-1:00PM)

For Practicing Pathologists/ Haematologists

Venue: Conference Hall, Regional Cancer Centre, Thiruvananthapuram

Theme of the Day	B-ALL Minimal Residual disease
Coordinators	Dr Brent Wood & Dr Sindhu Cherian
10:00 - 11:00	<i>Haematogones and Normal Patterns in B-ALL MRD-</i> Dr Kunal Sehgal
11:00 - 1:00	<i>Approach to B-ALL MRD and live case analysis -</i> Dr Sindhu Cherian

Lunch Break 1:00-2:00PM

### Advanced Clinical Workshop (30<sup>th</sup> Oct 2017 2:00-5:30PM)

2:00 - 2:45	<i>Advances in B-ALL MRD-</i> Dr Brent Wood
2:45 - 3:30	<i>Interesting B- MRD cases – Indian faculty from different institutes</i>
3:00 - 5:00	<i>Next Generation Flow –Challenges and Artifacts –</i> Dr Prashant Tembhare
5:00 - 5:30	Valedictory function

## 30th October 2017, Day 3 (9:00AM to 5:30PM)

### Technical Clinical Workshop

#### Technical Clinical Workshop (30<sup>th</sup> Oct 2017 10:30AM-1:00PM)

Pathologists/ Technicians desirous of learning technical aspects of flow cytometry in a hands on wet workshop.

Venue: Discussion Hall, Regional Cancer Centre, Thiruvananthapuram

Coordinators: Mr Sitaram G Ghogale and Mr Badrinath Y

10:30 - 1:00 *Sample preparation- Steps and nuances of lyse- wash and lyse-no wash protocols Instrument Setup*

Lunch Break 1:00-2:00PM

#### Technical Clinical Workshop (30<sup>th</sup> Oct 2017 2:00-5:30PM)

2:00 - 3:00

*Instrument QC using beads*

3:00 - 5:30

*Titration*

## 31th October 2017, Day 4 (9:00 AM to 5:30PM)

### Common for All Participants of Clinical (Technical, Basic and advanced workshops ) 31<sup>th</sup> Oct 2017 (9:00AM-10:30AM)

Venue: Auditorium, Regional Cancer Centre, Thiruvananthapuram

9:00 - 9:30

*Flow cytometry in Myelomas: Dr Prashant Tembhare*

9:30 - 10:00

*WHO Update on Lymphoma: Dr Priya Mary Jacob*

10:00 - 10:30

Tea

#### Beginners Clinical Workshop (31<sup>th</sup> Oct 2017 10:30AM-1:00PM)

Theme of the Day

Chronic Lymphoproliferative disorders

Coordinators

Dr. Anil Handoo and Dr Ritu Gupta

10:30 - 11:30

*Approach to B- chronic lymphoproliferative disorders: Dr. Ritu Gupta*

11:30 - 12:30

*Approach to T- chronic lymphoproliferative disorders: Dr. Anil Handoo*

12:30 - 1:00

Q& A; Discussion

Lunch Break 1:00-2:00PM

#### Beginners Clinical Workshop (31<sup>th</sup> Oct 2017 2:00PM-5:30PM)

2:00 - 3:30

*B- CLPD interesting cases- Dr Ritu Gupta*

3:30 - 5:00

*T- CLPD Case Discussion- Dr Anil Handoo*

5:00 - 5:30

Valedictory function

# 31<sup>st</sup> October 2017, Day 4 (9:00AM to 5:30PM)

## Advanced Clinical Workshop

### Advanced Clinical Workshop (31<sup>th</sup> Oct 2017 10:30AM-1:00PM)

Theme of the Day	AML Minimal Residual Disease
Coordinators	Dr Brent Wood & Dr Sindhu Cherian
10:00 - 11:00	<i>Flow cytometry for AML MRD detection ; introduction with case studies</i> Dr Sindhu Cherian
11:00 - 1:00	<i>Advanced topics in AML MRD and MPAL case studies</i> Dr Brent Wood

Lunch Break 1:00-2:00PM

### Advanced Clinical Workshop (31<sup>st</sup> Oct 2017 2:00-5:30PM)

2:00 - 2:45	<i>Challenging case presentations</i> -Dr Brent Wood and Dr Sindhu Cherian.
2:45 - 3:30	<i>TMH AML MRD Data-</i> Dr PG Subramanian
3:00 - 5:00	<i>AML MRD template and Approach at Tata Memorial Hospital-</i> Dr Prashant Tembhare
5:00 - 5:30	Valedictory function

## Technical Clinical Workshop

### Technical Clinical Workshop (31<sup>st</sup> Oct 2017 10:30AM-1:00PM)

Venue: Discussion Hall, Regional Cancer Centre, Thiruvananthapuram	
Coordinators:	Mr Sitaram G Ghogale and Mr Badrinath Y
10:30 - 1:00	<i>Antibody cocktail preparation, Basics of Florescence spectra and Compensation</i>

Lunch Break 1:00-2:00PM

### Technical Clinical Workshop (30<sup>th</sup> Oct 2017 2:00-5:30PM)

2:00 - 3:00	<i>Compensation basics</i>
3:00 - 5:00	<i>Troubleshooting</i>
5:00 - 5:30	Valedictory function