

# TCS 2024

The Cytometry Society-India



Theme  
Unraveling New Horizons of Cytometry  
**17-20 Oct 2024**

# 16<sup>th</sup> Annual Conference & Workshops



**Organizing Committee**  
Patrons  
Dr. Sumeet Gujral  
Dr. Manisha Madkaikar  
Organizing President  
Dr. P.G. Subramanian  
Organizing Secretary-Clinical  
Dr. Prashant Tembhare  
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Organized by  
ACTREC, Tata Memorial Centre, Navi Mumbai  
ICMR-NIRRH, & ICMR-NIIH, Mumbai



# 16<sup>th</sup> Annual Conference & Workshops

## TCS 2024

### Speakers and Faculty



*Alberto Orfao  
(Spain)*



*Aaron Tyznik  
(USA)*



*Brent Wood  
(USA)*



*Jahnvi Aluri  
(USA)*



*Kimberly Gilmour  
(USA)*



*Orianne Wagner  
Ballon (France)*



*Roshini Abraham  
(USA)*



*Paresh Jain  
(Singapore)*



*Mubin Tarannum  
(USA)*



*A Nisar*



*A Handoo*



*A Bhat*



*A Chaturvedi*



*A Sing*



*A Gupta*



*B Bagal*



*D Kumar*



*D Panda*



*Ganesh Kumar*



*H Krishnamurthy*



*K Bommannan*



*K Rehman*



*M Sachdeva*



*N Mallik*



*N Sachdeva*



*N Gupta*



*N Jindal*



*R Pandey*



*S Gupta*



*S Epari*



*U Chatterji*

# Workshops: 17<sup>th</sup> Oct 2024

## ACTREC, TMC, Kharghar, Navi Mumbai

Registration: 08'00-9'00

### Common Lectures: Hall-KS

9'00-9'30	Basics of Flow Cytometry	P Tembhare
9'30-10'00	Deciding Panel: Factors to consider	PG Subramanian

### Breakfast

<b>Workshop-1a: Approach to ALL &amp; ALL MRD - Day-1</b>		<b>(Hall-KS)</b>
11'00-11'30	FCM in Acute Leukemia & lineage assignment	S Gupta
11'30-12'00	Baseline Risk-stratification in ALL	N Mallik
12'00-13'00	Live analysis of ALL cases	A Karla, A Bibi
14'00-14'25	FCM approach of B-ALL MRD	D Panda
14'30-14'55	High sensitivity & Post antiCD19 therapy B-MRD	G Chatterjee
15'00-15'30	BMRD live case analysis	P Dhende, M Singh
<b>Tea/Coffee Break</b>		
16'00-16'30	FCM approach to T-ALL MRD	A Gupta
16'35-17'00	T-MRD live case analysis	G Chatterjee

<b>Workshop-2: Approach to CMML MDS, MPN</b>		<b>(HALL-PS)</b>
11'00-11'40	Immunophenotypic approach to CMML	O Wagner-Ballon
11'40-13'00	CMML live case analysis	O Wagner-Ballon
14'00-15'00	Normal Myeloid/Erythroid maturation, stem cell abnormalities in MDS and JMML	A Orfao
15'00-15'30	FCM in JMML and other MPN: TMC experience	P Tembhare
<b>Tea/Coffee Break</b>		
16'00-16'30	Immunophenotypic approach to MDS diagnosis	B Wood
16'35-17'00	MDS cases – TMC	P Tembhare

<b>Workshop-3a: Approach to B-CLPD &amp; MM - Day-1</b>		<b>(Hall-PTC)</b>
11'00-11'30	Immunophenotypic approach to B-CLPD	Ganesh KV
11'30-12'30	New updates in B-CLPD and live cases	A Orfao
12'35-13'00	FCM in marrow Involvement by BNHL	A Singh
14'00-14'25	Clinical value of BM involvement in NHL	B Bagal
14'30-15'30	B-CLPD Live cases analysis	S Sharma, K. Galani K Ghodke, A Vazifdar
<b>Tea/Coffee Break</b>		S Harankhedkar, M Kar
16'00-16'30	FCM Approach to Plasma Cell Disorders	MUS Sachdeva
16'35-17'00	MM Post-therapy assessment & MRD monitoring	S Java, B Bagal MUS Sachdeva

# Workshops: 17<sup>th</sup> Oct 2024

## ACTREC, TMC, Kharghar, Navi Mumbai

Time 11'00-17'00

### Workshop-4: Spectral Flow Cytometry

(HALL-CCE)

11'00-11'40	Introduction to Spectral Flow Cytometry	Aaron Tyznik (USA)
11'45-12'30	Panel Designing for spectral flow cytometry	Aaron Tyznik
12'30-13'00	Setting up Reference controls & Unmixing	Aaron Tyznik
14'00-14'30	Introduction to Software Analysis	S Basu
14'30-15'30	Live cases: Spectral FCM	S Ghogale/J Patil

Tea/Coffee Break

### Scientific Corporate session: BD Biosciences

(HALL-KS)

17'00-17'40	“Next Generation Flow Cytometry Data Analysis - approach using Infinicyt software”	George Banik
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17'30-18'00 Evening ~ Snacks & Tea/Coffee

# Workshop: 17<sup>th</sup> Oct 2024

## ICMR~NIIH & ICMR~NIRRCH, Mumbai

Time 9'00-12'30

### Common Lectures (NIRRCH)

... Basics of Flow Cytometry	H Krishnamurthy
... Application of Flowcytometry and Discussion	P Jain
... Panel Designing	S Walke

Time 13'30-18'00

### Workshop-6: High Dimensional Data-Driven Discovery (NIRRCH)

- ... 30 colour panel acquisition on High Dimensional Cytometer BD Symphony A3
- ... Tutorial on FlowJo Conventional and Unsupervised high dimensional data analysis

### Workshop-7: Conventional & Image Enabled Sorting (NIRRCH)

- ... Hands-on & Tutorial: Conventional and Spectral Sorting

### Workshop-8: Inborn Errors of Immunity (IEI)

(NIIH)

- ... Overview of IEIs
- ... Diagnostic approach to Combined Immunodeficiency
- Hands-on processing in extended-LSS & Analysis
- ... Diagnostic approach to Phagocytic defects &
- Hands-on NBT/ DHR and Analysis
- ... Complete automation of PIDOT



# Workshops: 18<sup>th</sup> Oct 2024

## ACTREC, TMC, Kharghar, Navi Mumbai

Registration: 08`00-9`00

### Common Lectures: Hall-KS

9`00-9`30	Immunophenotype approach to Hodgkin Lymphoma and differential diagnosis	B Wood
9`35-10`00	Quality Control in Flow Cytometry....	N Deshpande

### Breakfast

<b>Workshop-1b: Approach to AML &amp; AML MRD - Day-2</b>		<b>(HALL-KS)</b>
11`00-11`30	FCM data analysis approach to AML.	A Handoo
11`30-13`00	Live analysis of AML cases	S Johari, M Kar V Gadage
14`00-14`30	Analysis approach to AML MRD	N Patkar
14`35-15`30	AML MRD live cases	S Raj, S Thakur
<b>Tea/Coffee Break</b>		
16`00-16`30	Rapid Fire - AML MRD cases	
16`35-17`00	How to diagnose ALAL: Live cases	G Chatterjee

<b>Workshop-3b: Approach to T &amp; NK CLPD - Day-2</b>		<b>(Hall-PTC)</b>
11`00-11`30	Establishing FCM based T-clonality	A Chaturvedi
11`35-12`05	Approach to CD4+ T NHL	S Rajpal
12`10-13`00	Approach to CD8+/CD4+8+/CD4-8-T & NK-NHL	PG Subramanian
14`00-15`30	T-NHL: Histopathological Perspectives	S Epari S Rajpal, S Java
<b>Tea/Coffee Break</b>		
16`00-17`00	T-NHL Live cases analysis	S Lakshmi, Sridevi HB P Gudapathi

<b>Workshop-9: Approach to non-Hematolymphoid neoplasms</b>		<b>(Hall-PS)</b>
11`00-12`00	Immunophenotypic approach to RCT & other non-Hematolymphoid neoplasms	A Orfao
12`05-13`00	TMC experience in FCM role in RCT & other non-Hematolymphoid neoplasms.	P Tembhare
14`00-15`30	Live cases analysis – RCT & other NHL	A Orfao
<b>Tea/Coffee Break</b>		
16`00-17`00	Live cases analysis – RCT & other NHL – TMC	P Tembhare

<b>Workshop-10: Cytometric Bead Array</b>		<b>(Hall CCE)</b>
11`00-11`20	Introduction to Cytometric Bead Array	N Deshpande
11`25-12`00	Clinical applications of Cytokine analysis	N Jindal
12`05-12`30	Standard operating procedure – CBA	K Girase
12`30-13`00	Basics of analysis and reporting results	M Bhuri
14`00-15`30	Hands-on processing and analysis in CBA	S Poojary, S Bane
<b>Tea/Coffee Break</b>		
16`00-17`00	Intracellular cytokine staining workflow with Dry reagent	J Yadav

# Workshops: 18<sup>th</sup> Oct 2024

## ICMR~NIIH & ICMR~NIRRCH, Mumbai

Time 9'30-17'30

### Workshop-6: continues... (NIRRCH)

#### High Dimensional Data-Driven Discovery

- ... 30 colour panel acquisition on High Dimensional Cytometer BD Symphony A3
- ... Tutorial on FlowJo Conventional and Unsupervised high dimensional data analysis

### Workshop-7: continues... (NIRRCH)

#### Conventional & Image Enabled Sorting

- ... Hands-on & Tutorial: Conventional and Spectral Sorting

### Workshop-8: Inborn Errors of Immunity (IEI) (Day-2 NIIH)

- |  |   |
|--|---|
| ... Pitfalls in Flowcytometry                                | K Gilmour   |
| ... Functional Validation in Variant of Unknown Significance | J Aluri   |
| ... Diagnostic approach to HLH                               | S Sabrish   |
| ... Role of Flow Cytometry in Autoimmune disorders           | R Abraham\  |
| ... Hands-on Perforin and Granule release assay & Analysis   | S Sabrish/<br>S Shinde  |
| ... Case-based Discussion                                    | R Mallik<br>A Daivi<br>N Jodhawat<br>D Vedpathak<br>P Gaikwad |



# 16<sup>th</sup> Annual Conference

## TCS 2024

### 19-20 Oct 2024

#### Conference Schedule: 19<sup>th</sup> Oct 2024

Time	Topics		
8`30-9`10	Registration & Inauguration		
9`15-9`55	Internal and External Cellular dynamics reveal insights into differential infectious Disease Severity.....		R Pandey
10`00-10`45	Circulating tumor cells (CTC) in PCN, ALL & other HLN.....		A Orfao
10`45-11`00	Improving flow cytometry data through technology innovations		A Tyznik
11`00-11`30	Breakfast		
	<b>Hall-KS</b>	<b>Hall-PS</b>	<b>Hall-RRU</b>
11`30-11`50	Markers predicting underlying genetics in AL..... S Rajpal	Correcting misdiagnosis: T-NHL ..... P Tembhare	Stem cells and Cancer ... U Chatterjee
11`55-12`15	Markers predicting outcome in B-ALL .... K Bommanna	T-cell Clonality: TRBC1..... K Rahman	Cellular Therapy in ovarian cancer..... T Mubin
12`20-13`00	ALL MRD in CAR-T therapy.... B Wood	Immunophenotyping in Systemic Mastocytosis ..... A. Orfao	Making CAR T cells in India for India.... A Nisar
13`00-13`10	Topic Novel Monoclonal N Latex FLC Kappa & Lambda.. D Nebhnani	Scientific Corporate lecture	Miltenyi Biotec - your partner in Flow and CGT... V Daund
13`10-14`10	Assays Lunch Break		
		<b>Hall-KS</b>	
14`15-14`45	Defining Lineage in acute leukemia – WHO 5 <sup>th</sup> Edition....		B Wood
14`50-15`20	Engineered exosomes from Tregs: novel therapy for Type-1 Diabetes		N Sachdeva
15`25-15`40	Welcome to Kaluza learning center – Complex flow cytometry data analysis made easy,		V Ruocco
15`40-16`20	TCS Best Published Paper Award Felicitations		
16`20-17`00	Tea/Coffee Break		
	<b>Hall-KS</b>	<b>Hall-PS</b>	
17`00-17`40	Oral presentations: Clinical	Oral presentations: Basic	
17`45-19`00	Poster evaluation / EC meeting		
19`30 onwards	Welcome Dinner		



# 16<sup>th</sup> Annual Conference

## TCS 2024

### 19~20 Oct 2024

#### Conference Schedule: 20<sup>th</sup> Oct 2024

**Time**

**Topics**

**Hall~KS**

8`00-8`35	Navigating T-cell landscapes with advanced flow cytometry..	N Gupta
8`40-9`20	Monocyte/macrophage/PDC: Implications for the diagnosis and classification of AML ....	A Orfao
9`25-10`00	Innate immunity in tuberculosis pathogenesis....	D Kumar
10`00-10`25	<b>Breakfast</b>	
10`30-11`20	TCS Oration Award Ceremony	

**Hall~KS**

**Hall-PS**

11`30-12`00	<b>Interesting clinical case presentation</b>	<b>Primary immunodeficiency.....</b> M Madkaikar
12`00-12`30	Moderated by S Gujral & G Chatterjee	<b>Cell free therapeutic approach for impaired wound healing...</b> A Bhat
12`30-13`00	<b>Interesting clinical case presentation</b>	<b>Intertwined paths of standardization, automation and AI in flow cytometry ....</b> P Jain
13`00- 14`00	General Body meeting, Best Paper Awards, Travel awards & Vote of Thanks	
14`00 onwards	<b>Lunch</b>	

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## TCS 2024

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