

Event Highlights

- ◆ 32 hours of academic extravaganza
- ◆ Topics covering cutting research and clinical applications in cellular analysis.
- ◆ MI-FlowCyt standard & Flow Cytometry Data Presentation
- ◆ Assay validation of quantitative rare event analysis
- ◆ Cytometry Analysis and Deep Learning
- ◆ Changing Paradigms of Automation in Flow Cytometry
- ◆ Flow-cytometry to Single-cell Sequencing
- ◆ Understanding Disease Biology at Single Cell Level
- ◆ Travel awards; TCS award for Basic and Clinical Cytometry work; Awards poster & oral presentations.
- ◆ CME Credit hours from Delhi Medical Council*
- ◆ Multiple workshops covering Basics to Multi-Omics

*Awaited

Workshops

Dates

Measurable Residual Disease (MRD)	26-27 October, 2023
Basics of Flow Cytometry	26 October, 2023
Transplant Immunology	26 October, 2023
Primary Immunodeficiency Disorders	27 October, 2023
Advancing Research Through Cell Sorting	27 October, 2023
Multi-Omics at the Single Cell Level	27 October, 2023

For Registration

Website: <https://cytomteryindia.org/registration>



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Dear Friends

On behalf of the organizing committee of the 15th Annual conference of The Cytometry Society (TCS) [www.tcs.res.in], India, it gives us immense pleasure to invite you for an academic extravaganza in the speciality of cytometry at the All India Institute of Medical Sciences (AIIMS), New Delhi. The programme is scheduled from 26th October –29th October 2023, with two days dedicated to the Annual Meeting of The Cytometry Society (28th & 29th October) preceded by multiple parallel hands-on workshops on 26th & 27th October 2023. This meeting will be a realistic opportunity for better understanding of the technology of Cell cytometry and its impact in medical and basic sciences. The objective of this meeting is to share the valuable research along with very valuable expert perspectives gathered while managing the clinical and research facilities in this arena. The guidelines, recommendations, and expert opinions presented here will be an amalgamation of the current information with the pre-existing knowledge.

Confirmed international faculty include Prof. (Dr) **Sindhu Cherian** (University of Washington, Seattle, WA, USA), besides, all the key opinion leaders at the National level will be participating in this event. The meeting is envisaged to provide a unique platform for medical practitioners as well as basic scientists and researchers to meet and exchange ideas and information on the most recent innovations, trends, and concerns with the experienced faculty of internationally recognized authorities in the fields of Cytometry. We hope that this meeting will disseminate the new information far and wide and benefit all the attendees.

The organizing committee of the 15th TCS Annual Conference & Workshops welcomes you one & all. We are extremely delighted to host this integrative event at our center and sincerely hope that you shall enjoy the scientific deliberations in similar enthusiasm as we have had in getting this together.

For Abstracts & Awards

Website: <https://cytomteryindia.org/abstract>



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The Cytometry Society-India 15th Annual Conference & Workshops 26th -29th October, 2023 Theme: From Basics to Multi-Omics



Patrons

Dr. M. Srinivas
Director, AIIMS, New Delhi

Dr. Sushma Bhatnagar
Chief, Dr. BRAIRCH, AIIMS, New Delhi

Organizing Chairperson

Dr. Ritu Gupta
President, The Cytometry Society-India

Organizing Secretary

Dr. Anil Handoo
Vice-President, The Cytometry Society-India

Co-Organizing Secretary

Dr. Nitin Dayal
EC Member, The Cytometry Society-India

Organizing Committee

Dr. Sanjeev K. Gupta	Dr. Sachin Jain
Dr. Smeeta G.	Dr. Gurbinder Kaur
Dr. Deepshi Thakral	Dr. Lata Rani
Dr. Rupesh Srivastava	Mr. G.Srinivas
Dr. Sandeep Rai	Mrs. Saroj Singh
Dr. Kamal Gulati	

Venue

All India Institute of Medical Sciences, New Delhi



15th TCS Annual Meeting 2023
Venue: JLN Auditorium, AIIMS, New Delhi
Dates: 28th & 29th October, 2023
Theme: From Basics to Multi-Omics



Scientific Program: Day 1		
28th October, 2023		
Plenary Session		
Session Chaired By - Prof. Tejinder Singh & Prof. DK Mitra		
Time Slot	Topic/Event	Speaker
9:00 - 9.45	Journey of Flow Cytometry in India	Dr. Sumeet Gujral
9:45 - 10:15	Inauguration & Welcome Address	
10:15-10:45	TEA/COFFEE BREAK	
Session 1: Chaired By - Prof. Sameer Bakhshi & Prof. Punit Kaur		
10:45 -11:30	MIFlowCyt standard & Flow Cytometry Data Presentation - Issues and remedies thereof	Dr. Sindhu Cherian
11:30 -12:00	Dissecting hematological malignancies: Flow-cytometry & Single-cell sequencing	Dr .Ritu Gupta
12.00-12.30	The Ooh, The Aah and The Ouch of - Assay validation of quantitative rare event data acquisition	Dr. Urmi Chatterjee
12.30 –13:00	Cytometry Analysis and Deep Learning	Dr. Anubha Gupta
13.00 –14:00	LUNCH BREAK	
Session 2: Chaired By - Prof. Vibha Tandon & Prof Kalpana Luthra		
14:00-14:30	The cellular path to pathogenesis- A tale of 3 viruses	Dr. Vainav Patel
14:30-15:00	Flow-cytometry approach for diagnosis, classification and monitoring of T-cell CLPD	Dr. Prashant Tembhare
15:00-15:30	Chasing the immune checkpoint molecules in HIV-TB co-infection	Dr. Sunil Arora
15:30-16:00	The Future of Discovery: Bridging the intersection of spatial imaging with high parameter spectral flow cytometry	Dr. Robert Balderas
16:00-16:15	TEA/COFFEE BREAK	
Session 3: TCS Best Paper Awards' Presentations		
Chaired By - Prof Jyoti Kotwal, Prof. Amar Das Gupta, Prof. H. Krishnamurthy		
16:15-16:30	TCS Best Paper Awards' Presentation-Basic Science	
16:30-16:45	TCS Best Paper Awards' Presentation- Clinical	
Session 4: Poster Evaluation & TCS EC Meeting		
Poster-Clinical: Judge- Dr. Arul Selvi, Dr. Manupdesh Sachdeva, Dr. Nitin Dayal		
Poster-Basic: Judge- Dr. Gurvinder Kaur, Dr, Mayank Singh, Maya R. Gupta		
16.45– 17:30	Poster Session Evaluation & Networking	
17:30 –18:15	TCS Executive Committee Meeting	For EC members only

Scientific Program: Day 2		
29th October, 2023		
Plenary Session		
Chaired By - Prof. Sanjeev K Gupta & Dr. Tanima Dwivedi		
Time Slot	Topic/Event	Speaker
9:00 -9.45	Getting Ready for MRD Assessment in the Era of Immunotherapy	Dr. Sindhu Cherian
9.45-10.30	Special Session Chaired By - Dr. Anil Handoo & Dr. Sindhura Laxmi	
10:30-11:00	TEA/COFFEE BREAK	
Session 1: Parallel Sessions - Basic Sciences (Conference Hall, First Floor)		
Chaired By - Dr. Vineeta Agarwal & Dr. Deepshi Thakral		
11:00 -11:20	Tumour associated MDSCs in WM	Dr. Vaishali Bhardwaj
11:20 -11:40	Disease Biology at Single Cell Resolution	Dr. Sunil Raghav
11.40 -12.00	Unlocking the role of proinsulin in type-1 diabetes; from a key autoantigen to a primary therapeutic target	Dr. Naresh Sachdeva
12.00-12.20	Mesenchymal Stem Cells-Platelet interactions and wound healing	Dr. Anugya Bhatt
Session 1: Parallel Sessions - Clinical Sciences (JLN Auditorium)		
Chaired By - Dr. Manu Goyal, Dr. Namrata Awasthi, Dr. Chandan Kumar		
11:00 -11:20	Translational approach for assay menu expansion in a clinical flow cytometry lab	Dr. Paresh Jain
11:20 -11:40	Immunophenotype variants of normal populations- Circumventing pitfalls in MRD reporting	Dr. Kunal Sehgal
11.40 -12.00	Diagnosis beyond typical immunophenotypic fingerprint entities - Myelodysplasia - A Pattern Approach	Dr. P.G.Subramanian
12.00-12.20	Going beyond conventional flow cytometric testing - Platelet Activation Tests	Dr. Rutvi Dave
12.20 –13:00	General Body Meeting of TCS	
13.00 –14:00	LUNCH BREAK	
Session 2: Parallel Sessions (Oral Papers)		
Clinical Science- Judges: Dr. Mrinalini Kotru, Dr. Tushar Sehgal, Dr. Sarika Singh		
Basic Sciences- Judges: Prof. Sunil Raghav, Dr. Surender Sherawat, Dr. Priyavadhana		
14:00-15:30	Oral Papers-Clinical Sciences (JLN Auditorium)	
14:00-15:30	Oral papers– Basic Sciences (Conference Hall)	
15:30-15:45	TEA/COFFEE BREAK	
Session 3: Chaired By—Dr. Garima Jain & Dr. Amrita Saraf		
15:45-16:00	Single Cell Sorting	Dr. Sushil K. Ramadasi
16:00-16:20	PCPRO and Myeloma-MRD screening	Dr. Dragan Jevremovic
16:20-16:40	TBA	
16.40– 17:00	AWARDS, VALEDICTORY & TEA	



15th TCS Annual Conference & Workshops 2023
Theme: Workshop on Measurable Residual Disease (MRD)
Venue: Dr. Ramalingaswamy Board Room, AIIMS, New Delhi
Dates: 26th & 27th October, 2023



Workshop Coordinators: Dr. Sachin Jain & Dr. G. Smeeta

FACULTY

Dr. Sindhu Cherian [LEAD FACULTY]
 Associate Director of the Hematopathology Laboratory at the University of Washington
Dr Ritu Gupta
 Professor & Head, Laboratory Oncology, AIIMS, New Delhi

Scientific Program: Day 1		
26th October, 2023		
Session 1: 9:00 - 11:30		
Time	Topic	Speaker
09:00 - 09:15	Importance of MRD in Hematological Malignancies	Dr. Ranjit K Sahoo
09:15 - 10:30	Introduction to MRD: Basics & Methods of MRD monitoring	Dr. Sindhu Cherian
10:30 - 11:00	Do's & Don'ts of MRD: Sample preparation & Instrument set up	Dr. Sindhu Cherian
11:00 - 11:30	Assay Performance Characteristics: Concept of LLOQ & LLOD	Dr Anil Handoo
11:30 - 11:45 TEA/COFFEE BREAK		
Session 2: 11:45 - 13:30		
11:45 - 12:15	Approach to B ALL MRD: Panel design, template generation, internal controls & analysis	Dr. Karthik Bommannan
12:15 - 13:30	B-ALL MRD - Concepts & Case Studies	Dr G Smeeta/Dr Nupur Das
13:30 - 14:00 LUNCH BREAK		
Session 3: 14:00 - 15:30		
14:00 - 14:30	Approach to T ALL MRD : Panel design, template generation, internal controls & analysis	Dr Jasmita Das
14:30 - 15:30	T-ALL MRD: Concepts & Case Studies	Dr Manupdesch Sachdeva
15:30 - 15:45 TEA/COFFEE BREAK		
Session 4: 15:45 - 17:15		
15:45 - 16:30	Approach to Myeloma MRD: Panel design, template generation, internal controls & analysis	Dr Ritu Gupta
16:30 - 17:15	Myeloma MRD - Concepts & Case Studies	Dr Khaliq-Ur-Rahman

Scientific Program: Day 2		
27th October, 2023		
Session 1: 9:30 - 11:15		
Time	Topic	Speaker
09:30 - 09:45	Re-cap of Day 1	Dr Anil Handoo
09:45 - 10:15	Approach to CLL/Hairy Cell Leukemia MRD: Panel design, template generation, internal controls & analysis	Dr Prashant Tembhare
10:15 - 11:15	CLL/Hairy Cell Leukemia MRD - Concepts & Case Studies	Dr Naveen Aggarwal Dr Prashant Tembhare
11:15- 11:30 TEA/COFFEE BREAK		
Session 2: 11:30 - 13:30		
11:30 - 12:00	Approach to AML MRD: Panel design, template generation, internal controls & analysis	Dr. Sindhu Cherian
12:00 - 13:00	AML MRD - Concepts & Case Studies	Dr. Tina Dadu
13:00—13:30	Challenges in MPAL Through Case Studies	Dr. Sanjeev K. Gupta
13:30 - 14:00 LUNCH BREAK		
Session 3: 14:00 - 16:00		
14:00 - 15:00	Infinicyt Software	Dr. Sachin Jain
15:00 - 15:30	Report formats - What's it that makes a good report?	Dr. Kunal Sehgal
15:30—16:00	Conclusion, Feedback and plans for subsequent meetings	All Faculty
16:00 - 16:30 TEA		



15th TCS Annual Conference & Workshops 2023
Venue: Central Core Research Facility (CCRF), Convergence Block, AIIMS, New Delhi



Workshop Theme: Advancing Research Through Cell Sorting		
26th October, 2023		
Coordinators: Dr. Rupesh Srivastava; Dr. Rahul Sharma; Dr. Sandeep Rai ; Mr. G. Srinivas		
FACULTY		
Dr. Kalpana Luthra Department of Biochemistry, AIIMS, New Delhi Dr. Rupesh Shrivastava Department of Biotechnology, AIIMS, New Delhi Dr. Rahul Sharma Centralized Core Research Facility (CCRF), AIIMS, New Delhi Dr. Sandeep Rai Technical Officer, Laboratory Oncology, Dr. BRA IRCH , AIIMS, New Delhi Mr. G Srinivas Senior Technical Officer, Center for Cellular & Molecular Biology (CCMB), Hyderabad		

Scientific Program		
Registration: 8:45 - 9:15		
Session 1: 9:15 - 11:30		
Time	Topic	Speaker
09:15 - 09:30	Welcome Address	Dr. D.K. Mitra
09:30- 10:00	Introductory talk: Unlocking the Power of Cell Sorting	Dr. Kalpana Luthra
10:00 - 11:00	Cell Sorting Strategies: Practical & Technical perspective	Dr. Vinay Gupta
11:00 - 11:30	Question & Answer	Dr Anil Handoo
11:30 - 11:45 TEA/COFFEE BREAK		
Session 2: 11:45 - 13:30		
11:45 - 13:30	Sample Processing (Human Blood sample)	All Faculty
13:30 - 14:00 LUNCH BREAK		
Session 3: 14:00 - 16:00		
14:00 - 15:30	Demonstration of cell sorting (4 way /single cell) & purity check	All Faculty
15:30 - 15:45	Troubleshooting, Do's & Don'ts in cell sorting	All Faculty
15:45 - 16:00	Conclusion & Feedback	Organizing Team
16:00 - 16:30 TEA		

*** Supported by Research Grant from SERB, DST (SPG/2021/004460)**

Workshop Theme: Multi-Omics at the Single Cell Level		
27th October, 2023		
Coordinators: Dr. Deepshi Thakral; Dr. Lata Rani; Dr. Murali Manohar*		
FACULTY		
Dr. Ritu Gupta* Laboratory Oncology, Dr. BRA-IRCH, AIIMS, New Delhi Dr. Arindam Maitra Associate Director, NIBMG, Kalyani, West Bengal Dr. Rajesh Pandey Principal Scientist, CSIR-IGIB, New Delhi Dr. Deepshi Thakral Senior Scientist, Laboratory Oncology, Dr. BRA-IRCH, AIIMS, New Delhi Dr. Lata Rani Scientist, Centralized Core Research Facility (Genomics), AIIMS, New Delhi Dr. Murali Manohar* Scientist, Laboratory Oncology, Dr. BRA-IRCH, AIIMS, New Delhi		

Scientific Program		
Registration: 8:45 - 9:15		
Session 1: 9:15 - 11:30 (Conference Hall)		
Chair: Dr. Madhulika Kabra		
Time	Topic	Speaker
09:15 - 09:30	Welcome Address	Dr. Ritu Gupta
09:30- 10:00	Single Cell Omics facilitating Canonical and Non-Canonical understanding of the host immune response	Dr. Rajesh Pandey
10:00 - 10:45	Our journey from bulk to single-cell transcriptomics in oral cancer: Novel insights and new horizons	Dr. Arindam Maitra
10:45 - 11:30 TEA/COFFEE BREAK		
Session 2: 11:30 - 13:00 (CCRF)		
11:30 - 11:45	Overview of the workshop	Dr. Deepshi Thakral Dr. Lata Rani
11:45 - 12:30	Latest trends in Single Cell Multiomics and its applications	
12:30 - 13:00	Tips and tricks of sample preparation	
13:00 - 14:00 LUNCH BREAK		
Session 3: 14:00 - 16:00 (Wet Lab Demonstration)		
14:00 - 15:00	Cartridge loading	All Faculty
15:00 - 15:30	PCR product purification	
15:30 - 16:00	QC analysis by Qubit and Fragment Analyser	
16:00 - 16:15 TEA/COFFEE BREAK		
Session 4: 16:15 - 17:15		
16:15 - 17:00	Data Visualization and analysis	All Faculty
17:00 - 17:15	Conclusion & Feedback	



15th TCS Annual Conference & Workshops 2023
Venue: Center for Medical Education & Technology (CMET), AIIMS, New Delhi



Workshop Theme: Transplant Immunology
26th October, 2023
Coordinators: Dr. Gurvinder Kaur & Dr. Nitin Dayal
FACULTY
Dr Dolly Daniel Head, Department of Immunohaematology & Transfusion Medicine, CMC Vellore Dr Aseem Tiwari Director, Department of Transfusion Medicine, Medanta -The Medicity, Gurugram Dr. Nitin Dayal HOD Hematology, Max Super Speciality Hospital, Saket, New Delhi Dr. Gurvinder Kaur Scientist, Laboratory Oncology, AIIMS New Delhi Dr Mohit Chowdhary Head, Department of Transfusion Medicine, Indraprastha Apollo Hospital, New Delhi

Workshop Theme: Primary Immunodeficiency Diseases
27th October, 2023
Coordinators: Dr. Sabina Langer & Dr. Ananthvikas Jayaram
FACULTY
Dr. Manisha Madkaikar Scientist G & Director , ICMR National Institute of Immunohaematology, MUMBAI Dr. Nita Radhakrishnan Head of Pediatric Hematology Oncology, Post Graduate Institute of Child Health, Noida, UP Dr. Sabina Langer Sr. Consultant Hematology, Sir Ganga Ram Hospital, New Delhi Dr. Ananthvikas Jayaram Pathologist. Neuberg Anand Reference Laboratory, Bangaluru Dr. Manas Kalra Sr. Consultant ,Paediatric Haemto-Oncology, Sir Ganga Ram Hospital, New Delhi

Scientific Program		
Registration: 8:45 - 9:00		
Session 1: 9:00 - 11:30		
Time	Topic	Speaker
09:00 - 10:00	Basics of HLA and Transplant Immunology	Dr. N.K. Mehra
10:30- 10:30	An approach to Antibody testing in transplantation	Dr. Dolly Daniel
10:30 - 11:00	CDC Crossmatch - Principle, methodology, analysis, interpretation, modifications & pitfalls	Dr. Aseem Tiwari
11:00 - 11:30	CDC Crossmatch - Concepts & Case Studies	Dr Gurvinder Kaur
11:30 - 11:45	TEA/COFFEE BREAK	
Session 2: 11:45 - 13:30		
11:45 - 12:15	Flow Cytometry Crossmatch - principle, methodology, analysis, interpretation, modifications & pitfalls	Dr. Nitin dayal
12:15 - 12:45	Flow Crossmatch - Case Studies	Dr Gurvinder Kaur
12:45 - 13:30	The Good, The Bad and The Ugly of Luminex Crossmatch - principle, methodology, analysis, interpretation and Cases	Dr Mohit Chowdhary
13:30 - 14:00	LUNCH BREAK	
Session 3: 14:00 - 16:00		
14:00 - 14:30	HLA Antibody screening PRA - Flow cytometry Vs Luminex	Dr. Aseem Tiwari
14:30 - 15:30	SAB - principle, methodology, analysis, interpretation	Dr. Dolly Daniel
15:30 - 15:45	TEA	
15:45 - 17:00	Case Studies	All faculty

Scientific Program		
Registration: 8:45 - 9:15		
Session 1: 9:15 - 11:30		
Time	Topic	Speaker
09:15 - 09:30	Welcome Address	Dr. Sabina Langer
09:30- 10:00	Introduction to IEIs with emphasis on lymphocyte disorders	Dr Nita Radhakrishnan
10:00 - 10:45	The role of flow cytometry in the array of diagnostic tools for diagnosis of IEI - An overview	Dr. Manisha Madkaikar
10:45 - 11:30	Normal lymphocyte phenotypes - Variations in reactive conditions relevant to clinical practice	Dr. Ananthvikas Jayaram
11:30 - 11:45	TEA/COFFEE BREAK	
Session 2: 11:45 - 13:30		
11:45 - 12:30	Panel design for a lymphocyte subset assay in the context of IEI - basic recommendations and best practices	Dr. Sabina Langer
12:30 - 13:00	Case based discussion on interpretation of Lymphocyte Sub-set Analysis in IEI	
13:30 - 14:00	LUNCH BREAK	
Session 3: 14:00 - 16:00 (Wet Lab Demonstration)		
14:00 - 15:00	Case based discussion on interpretation of LSSA in IEI	Dr. Ananthvikas Jayaram
15:00 - 15:30	What happens after flow? Role of genomics & phenocopies	Dr Manas Kalra
15:30 - 15:45	Report formats - What's it that makes a good report?	Dr. Ananthvikas Jayaram
15:45 - 16:00	Conclusion, Feedback and plans for subsequent meetings	All faculty
16:00 - 16:30	TEA	



15th TCS Annual Conference & Workshops 2023
Theme: Basics of Flow Cytometry
Venue: FACS Academy Jamia Hamdard, New Delhi
Dates: 26th October, 2023



Coordinators: Dr. Vivek Singh & Mr. Swapnil Walke

FACULTY

Dr H Krishnamurthy (**Lead Faculty**)
 Scientific Officer 'G' , National Institute of Biological Sciences (NCBS), Tata Institute of Fundamental Research, Bengaluru
 Dr Hemant Agrawal
 Head Department of Pediatric Hematology Oncology , Post Graduate Institute of Child Health, Noida, UP
 Dr. Vivek Singh
 Scientist, Laboratory Oncology, Dr. BRA-IRCH, New Delhi
 Mr. Swapnil Walke
 Senior Application Manager, BD Biosciences

Scientific Program

Registration: 8:45 - 9:30

Session 1: 9:30 - 11:30

Time	Topic	Speaker
09:30 - 09:45	Welcome & Introduction	Dr. Vivek Singh
09:45- 11:30	An approach to Antibody testing in transplantation	Dr. H. Krishnamurthy
11:30 - 11:45	TEA/COFFEE BREAK	
Session 2: 11:45 - 13:30		
11:45 - 12:45	Concept of Instrument QC	Dr. Swapnil Walke
12:45 - 13:30	Flow Cytometry Data Analysis and Presentation	Dr. Hemant Agrawal
13:30 - 14:00	LUNCH BREAK	
Session 3: 14:00 - 16:00		
14:00 - 15:00	Instrument overview & QC	Dr. Manisha Suthar
15:00 - 15:30	Voltage optimization and compensation	Dr. H. Krishnamurthy
15:30 - 16:30	Six-Color T-B-NK data acquisition and analysis	Dr. Swapnil Walke
TEA		