

Preliminary Program

 cytoconnectperth2025.com.au/program/

CytoConnect_2025



Thank you to our Platinum Sponsor



WEDNESDAY 26 NOVEMBER 2025

1800 – 2100

[Welcome Reception](#) Sponsored by

THURSDAY 27 NOVEMBER 2025

0800-1730	Registration	PCEC Level 3 Foyer 1
-----------	--------------	----------------------

0815-1545	Exhibition Opens	Bellevue Ballroom 1
-----------	------------------	---------------------

0850 – 1000	Session 1 – Plenary <i>Chair: TBC</i>	Bellevue Ballroom 2
-------------	--	---------------------

0845	Opening Speech and Announcements Dr Matt Linden , <i>Conference Chair</i>	
------	---	--

0855	Welcome to Country Freda Ogilvie , <i>Whadjuk / Balladong Noongar Elder</i>	
------	---	--

0900	Convergence in Cytometry: Rainbows and Reasoning in the Pursuit of AML Residual Disease Dr Paul Wallace , <i>Roswell Park Cancer Centre</i>	
------	--	--

1000 – 1030	Morning Tea <i>Sponsored by</i>	Bellevue Ballroom 1
-------------	---------------------------------	---------------------

1030 – 1215	Session 2 – Plenary <i>Chair: TBC</i>	Bellevue Ballroom 2
-------------	--	---------------------

1030	New metrics to achieve high-quality data in the era of 50-color+ flow cytometry Dr Florian Mair , <i>ETH Zurich</i>	
------	--	--

THURSDAY 27 NOVEMBER 2025

1130	Diving Deep: Profiling Exhausted T Cells in the Tumor Microenvironment Using Full Spectrum Flow Cytometry Karen Teng , <i>Cytek Platinum Sponsor Presentation</i>		
1215 – 1315	Lunch <i>Sponsored by</i>		Bellevue Ballroom 1
1315 – 1515	Session 3 – Clinical Breakout (Haematology) <i>Chair: TBC</i> Meeting Rooms 2 & 3	Session 4 – Research Breakout (High Dimensional Panels) <i>Chair: TBC</i> Bellevue Ballroom 2	Session 5 – Research Breakout (Outside the box applications) <i>Chair: TBC</i> Meeting Room 1
1315	Minimal Residual Disease in Acute Lymphoblastic Leukemia testing Dr Ben Hedley , <i>London Health Sciences Center</i>	High-resolution profiling of vaccine-induced B cell responses with full-spectrum flow cytometry Dr Christian Tjiam , <i>The Kids Research Institute Australia</i>	Targeting microbes using spectral cytometry Dr Allison McInnes , <i>The Centre for Microbiome Research</i>
1345	RHH Flow: A Journey of Validation (2 DxFLEX and a CellMek SPS) Emily Hinds , <i>Royal Hobart Hospital</i>	Delineating the alloresponse in solid organ transplantation with flow cytometry Dr Amy Prosser , <i>University of Western Australia</i>	Spectral cytometry empowers a no-stain assay to study global-warming inducing methanogens in their natural milieu; a useful tool advancing anti-methanogen vaccine design Joanna Roberts , <i>Flowjoanna Tāpui</i>
1405			Fluorescence-activated protoplast sorting for crop improvement Dr Sareena Sahab , <i>Department of Energy, Environment and Climate Action</i>
1415	Spectral flow cytometry in clinical haematology Associate Professor Elizabeth Tegg , <i>NSW Health Pathology</i>	Spatial profiling of the tumour microenvironment in hepatocellular carcinoma Dr Felix Marsh-Wakefield , <i>Centenary Institute</i>	
1425			Imaging Flow Cytometric Detection of IGH Translocations in Multiple Myeloma Sarah Clarke , <i>University of Western Australia</i>

THURSDAY 27 NOVEMBER 2025

1445	TRBC1 and TRBC2 flow cytometry Dr Edward Abadir , <i>Royal Prince Alfred Hospital</i>	Improved Single-Cell Multiomics through Optimised Sequence Utilisation Dr Wenyan Li , <i>Children's Cancer Institute Australia</i>	Leveraging cytometry methods in a cohort of transgender young people to detect hormone-mediated changes in immune function Alice White , <i>The Kids Research Institute Australia</i>
1515 – 1545	Afternoon Tea <i>Sponsored by</i>		Bellevue Ballroom 1
1545 – 1715	Session 6 – Clinical Breakout (Haem Onc) <i>Chair: TBC</i> Meeting Rooms 2 & 3	Session 7 – Research Breakout (Non-Tumour Immunology) <i>Chair: TBC</i> Bellevue Ballroom 2	Session 8 – SRL Breakout <i>Chair: TBC</i> Meeting Room 1
1545	Advances in diagnostics and treatment for infants with acute lymphoblastic leukaemia Professor Rishi Kotecha , <i>Perth Children's Hospital</i>	High-Dimensional Spectral Flow Cytometry Demonstrates Impaired B Cell Responses to Childhood Vaccination: Preliminary Findings from the CHIP study (Childhood Health and Immunity Post-burn Injury) Lucy Barrett , <i>University of Western Australia</i>	Integration of New Technologies into Shared Service Facilities: Image-based Cell Sorting Alan Saluk , <i>The Scripps Research Institute</i>
1605	The Proportion of Circulating Tumor Plasma Cells out of Total Circulating Plasma Cells is a Good Prognostic Indicator for Newly Diagnosed Patients of Multiple Myeloma Man Updesh Singh Sachdeva , <i>Postgraduate Institute of Medical Education and Research (PGIMER)</i>	Full-spectrum flow cytometry reveals mucosal tissue-based immunity induced by a live bacterial intranasal vaccine Jack Pepper , <i>The Kids Research Institute Australia</i>	Darkness be my Friend: When Reduced Laser Power and Clever Chemistry can Improve Signal Resolution Steven Lim , <i>Francis Crick Institute</i>

THURSDAY 27 NOVEMBER 2025

1625	Role of TRBC1 and TRBC2 in assessment of T cell clonality Professor William Sewell, <i>Garvan Institute</i>	Influence of Baseline Immune Composition on Neutralising Antibody and T Cell Responses to SARS-CoV-2 Vaccination Sarah Baird, <i>The University of Sydney</i>	Building Integrated Precision Medicine Pipelines Across Shared Resource Laboratories via the PrecisionGo Initiative Dr Maggie Wang, <i>Westmead Institute for Medical Research</i>
1645	Prognostic Value of Dynamic Minimal Residual Disease Monitoring for Adolescent and Adult T-lymphoblastic Leukemia /lymphoma Hongyan Liao, <i>West China Hospital, Sichuan University</i>	Spectral Cytometry Phenotyping of Dendritic Cells in Autoimmunity Nadia Roberts, <i>John Curtin School of Medical Research</i>	The Critical Aspects of Aerosol Containment Testing in Flow Cytometry – What are the essential requirements for safety? Avrill Aspland, <i>The University of Sydney</i>
1715	Session 8 – Keynote Professor Fiona Wood AO, FRCS, FRACS, <i>Fiona Wood Foundation</i>		
1800 – 1900	Poster viewing with refreshments		Bellevue Ballroom 1

FRIDAY 28 NOVEMBER 2025

0800	Commercial Breakfast & Learn <i>Sponsored by</i>		
0815-1730	Registration		PCEC Level 3 Foyer 1
0830-1620	Exhibition Opens		Bellevue Ballroom 1
0900 – 1000	Session 10 – Plenary <i>Chair: TBC</i>		
0900	The Technician Commitment: Transforming Technical Careers through Culture Change Dr Kelly Vere MBE, <i>UK Institute for Technical Skills & Strategy and University of Nottingham</i>	Bellevue Ballroom 2	
1000 – 1030	Morning Tea <i>Sponsored by</i>		Bellevue Ballroom 1
1030 – 1250	Session 11 – Plenary <i>Chair: TBC</i>		
			Bellevue Ballroom 2

FRIDAY 28 NOVEMBER 2025

1030	Combatting the Emerging Threat of Antimicrobial Resistance with AI-Enhanced Flow Cytometry Dr Kieran Mulroney , <i>Cytopenix</i>		
1130	Gold Sponsor Presentation – Latest Imaging and Spectral Flow Cytometry Innovations with Thermo Fisher Scientific <i>Thermo Fisher Scientific</i>		
1150	“Immuno-flowFISH”: Imaging Flow Cytometry to Detect Chromosomes in Haematological Malignancies Professor Wendy Erber , <i>University of Western Australia</i>		
1250 – 1350	Lunch Sponsored by		Bellevue Ballroom 1
1350 – 1550	Invited Speakers		
1300 – 1500	Session 12 – Clinical Breakout (Infection and Immunity) <i>Chair: TBC</i> Meeting Rooms 2 & 3	Session 13 – SRL Breakout <i>Chair: Pat Metharom</i> Bellevue Ballroom 2	Session 14 – Innovation Breakout <i>Chair: TBC</i> Meeting Room 1
1350	Inborn Errors of Immunity: What Can They Tell Us About Common Allergic Diseases? Dr Sharon Choo , <i>The Royal Children’s Hospital Melbourne</i>	Projecting Outwards, Reflecting Inwards: How Technician-Led Change Shaped My Path from Flow to Faculty Professor Andy Filby , <i>Newcastle University Biosciences Institute (NUBI)</i>	Detection of High-Risk Chromosomal Abnormalities in the Circulation in Myelofibrosis using Imaging Flow Cytometry Ruby Hamilton , <i>The University of Western Australia</i>
1410	High-Dimensional Immunophenotyping of Circulating Neutrophils Using a Novel 17-Marker Spectral Flow Cytometry Panel. Ceridwyn Jones , <i>University of Otago</i>		

1420 Innovative Clinical Flow Cytometry Panels in the Investigation of Primary Immunodeficiency
[Professor Cindy Ma](#),
Garvan Institute of Medical Research

Panel Discussion

The importance of research technicians. Their current status in Academia and Research Institutes: what can we do to improve them

Panellists:

- **Dr Kelly Vere MBE** – University of Nottingham
- **Professor Andrew Filby** – Newcastle University
- **Professor Michele Wilson** – Curtin University Associate Provost
- **Dr Scott Fitzgerald** – National Tertiary Education Union (WA Division)
- **Adj Professor Sach Jayasinghe** – director of ACRI (Academy for Collaborative Research Infrastructure)

1430

Rethinking Diagnostics in Myelodysplastic Syndrome and Unexplained Cytopenia: Employing Morphometric Evaluation of Dysplasia by Imaging Flow Cytometry
Carina Rosenberg,
Aarhus University Hospital

FRIDAY 28 NOVEMBER 2025

1450	Inflammation due to Plastic Associated Chemicals Professor Michaela Lucas , <i>University of Western Australia, NHMS, CAHS</i>	SRL Challenges Randall Grose , <i>SAHMRI</i>	Detection of Adverse Cytogenetics in Acute Myeloid Leukaemia by Imaging Flow Cytometry using “Immuno-flowFISH” Naomi Damstra , <i>The University of Western Australia</i>
1510			Defining Surface Receptor Phenotypes of Airway Mucosal B Cells using Massively Parallel Flow Cytometry Edison Foo , <i>The Kids Research Institute Australia</i>
1520	Advanced immunophenotyping of lymphocyte and monocyte subsets in healthy Australian adults using a novel spectral flow cytometry panel Ainsley Davies , <i>The Australian National University</i>		
1550 – 1620	Afternoon Tea <i>Sponsored by</i>		Bellevue Ballroom 1
1620 – 1740	Session 15 – Clinical Breakout (Infection & Immunity) <i>Chair: TBC</i> Meeting Rooms 2 & 3	Session 16 – Innovation Breakout <i>Chair: TBC</i> Bellevue Ballroom 2	Session 17 – Research Breakout (Tumour Immunology) <i>Chair: TBC</i> Meeting Room 1
1620	Basophil Activation Test: a Future Alternative to Oral Food Challenge for Pediatric Peanut Allergy? Dr Jochen Behrends , <i>Research Center Borstel</i>	CellSurf ELISA: A High-Throughput Assay for Sorting Immune Cells Based on Cytokine Secretion Zongjie Wang , <i>Chan Zuckerberg Biohub Chicago</i>	Identifying Immune-Related Biomarkers of Chemoradiotherapy Response in Rectal Cancer using Flow and Tissue Cytometry Melanie Mccoy , <i>St John of God Subiaco Hospital</i>
1640	High Parameter Spectral Flow Cytometry Panels: Adapting from Research Use Only to a Clinical Trial Setting in an ISO17025-Accredited Laboratory Dr Elizabeth McDonald , <i>QIMR Berghofer</i>	Ultra-Sensitive Disease Classification Through Improved Batch Alignment of High-Dimensional Cytometry Data Dr Benjamin Mashford , <i>ANU</i>	Identifying Predictors of Colorectal Cancer Metastasis using Multiplex Immunofluorescence and Digital Image Analysis Tracey Lee-Pullen , <i>St John of God Subiaco Hospital</i>

FRIDAY 28 NOVEMBER 2025

1700	Functional Evaluation of Rare Plasmacytoid Dendritic Cells in Children with Asthma Dr Jonatan Leffler , <i>The Kids Research Institute Australia</i>	Machine Learning-Based Biomarker Development for Immunotherapy Response Prediction in Resectable Hepatocellular Carcinoma Andrea (Yu-Fen) Wang , <i>AHEAD Medicine Corporation</i>	Identification of Cancer-Associated Fibroblast Populations that Affect CD8 T Cell Infiltration into Tumours of Colorectal Cancer Patients Dr Roslyn Kemp , <i>University of Otago</i>
1720	Understanding the Impact of Childhood Burn Injury on Immunity: From Conventional to Spectral Flow Cytometry Blair Johnson , <i>Fiona Wood Foundation</i>	Spectral Flow Cytometry Revisited: Information-Theoretic Principles, Optimal Design, and Why Having More Channels is Not Always Better Dr Bartek Rajwa , <i>Purdue University</i>	Comprehensive Cord Blood NK Cell Subsets Characterisation and Ligand-Receptor Mapping to Optimise to NK cell Immunotherapy in Paediatric AML Bhumika Tirthani , <i>Centre For Cancer Biology, University of South Australia</i>
1815	Shuttle pickup from PCEC		
1900 – 2300	Conference Dinner		Riverview Room, Optus Stadium

SATURDAY 29 NOVEMBER 2025

0800	Commercial Breakfast		
0830-1430	Registration	Level 3 Foyer 1	
0830-1300	Exhibition Opens	Bellevue Ballroom 1	
0900 – 1030	Session 18 – Plenary	Bellevue Ballroom 2	
0900	Diagnosis and evaluation of acute leukaemia of ambiguous lineage by flow cytometry Dr Franklin “Buddy” Fuda , <i>UT Southwestern Medical Center</i>		
1000 – 1030	Morning Tea	Bellevue Ballroom 1	

SATURDAY 29 NOVEMBER 2025

1100 – 1230	Session 19 – Plenary <i>Chair: TBC</i>			Bellevue Ballroom 2
1030	A Tale of Two Flow Cells and Four Viruses Dr Vainav Patel , <i>NIRRCH (ICMR)</i>			
1130	Tips for accurate high-dimensional analysis and sorting with Spectral Flow Cytometry <i>Sponsored by Makoto Ishihara, (Sysmex Gold Sponsor Presentation)</i>			
1150 – 1250	Lunch			Bellevue Ballroom 1
1350 – 1500	Parallel Sessions – Invited Speakers			
1350 – 1500	Session 20 – Breakout (Cytometry Education) <i>Chair: TBC</i> Meeting Room 2	Session 21 – Breakout (Partnerships) <i>Chair: TBC</i> Bellevue Ballroom 2	Session 22 – Breakout (Mass & Imaging Cytometry) <i>Chair: TBC</i> Meeting Room 1	Session 23 – Breakout (Applications) <i>Chair: TBC</i> Meeting Room 3
1250 – 1300	TCS and Cytometry Education in India Dr Vainav Patel , <i>NIRRCH (ICMR)</i>	Rapid Characterisation and Quantification of Toxin Producing Cyanobacteria in Limnic Systems by Imaging Flow Cytometry Dr Kathy Fuller & Luca Zappia , The University of Western Australia & <i>Water Corporation of Western Australia</i>	Mass Cytometry Ensures Deep Immune Profiling in Large-Scale Studies when Planned and Implemented Successfully Thomas Hueneburg , <i>Charles Perkins Centre / University of Sydney</i>	Flow Cytometric Detection of BCR::ABL1 in T-lymphocytes in Chronic Myeloid Leukaemia Daria Buic , <i>The University of Western Australia</i>

SATURDAY 29 NOVEMBER 2025

1320	Flow Cytometry Education in Southeast Asia – The ISAC Live Education Delivery Group Experience Dr Paul Hutchinson , <i>National University of Singapore</i>	Statistical Comparison of Clusters in 18-colour Flow Cytometry Reveals a Novel Expanded Subset of CMV-Specific CD4 T Cells Professor John Zaunders & Lucy Conran , <i>St Vincent's Hospital & University of Western Australia</i>	An In Situ Quantitative Map of Mononuclear Phagocyte Interactions with HIV across Anogenital Mucosal Tissues Using High Parameter Spatial Techniques Dr Thomas O'Neil , <i>The Westmead Institute for Medical Research</i>	Investigating Phenotypic and Functional Changes in Peanut-Specific B and T Lymphocytes throughout the Course of Peanut Oral Immunotherapy in Allergic Infants Abbey Figliomeni , <i>The Kids Research Institute</i>
1340				
1350	The Need for Clinical Flow Training in Regional Areas Ailie Ross , <i>James Cook University</i>	A Partnership for the Use of Lifetime-Cytometry and the Study of Metabolic Factors that Affect Cancer Cell Resistance to Therapy Dr Jessica Houston & Professor Kevin Houston , <i>New Mexico State University</i>	Utilising High-Parameter Flow Cytometry and Imaging Mass Cytometry to Study Resident and Infiltrating Immune Cell Subsets in Herpes Keratitis Diseased Human Corneas Dr Kirstie Bertram , <i>Westmead Institute for Medical Research</i>	Imaging Flow Cytometric Detection of CRLF2 rearrangement and TSLPR in Ph-like Acute Lymphoblastic Leukaemia Andrea Aluner , <i>Translational Cancer Pathology Laboratory, University of Western Australia</i>
1400			Novel Strategy to Enable Equity in High Parameter Immune Phenotyping Studies for Individuals from Remote Settings Natalie Smith , <i>University of Sydney</i>	Harnessing the Immune Response to Vascular Surgery for Biomarker Discovery Connor Davis , <i>University of Otago</i>
1430	Session 24 – Annual General Meeting of the Australasian Cytometry Society			Bellevue Ballroom 2
1530	Conference Close			Bellevue Ballroom 2

SUNDAY 30 NOVEMBER 2025 – Workshops

Venue Harry Perkins Institute of Medical Research (North)

SUNDAY 30 NOVEMBER 2025 – Workshops

Topic	Multi-omics masterclass (Full Day)	Spectral Panels (Half Day)	Imaging Cytometry (Half Day)	Clinical Flow (Half Day)	SRL (Half Day)
-------	--	-------------------------------	------------------------------------	-----------------------------	-------------------

SUNDAY 30 NOVEMBER 2025 – Workshops

0930	What's Special about Spatial? Masterclass Session 1	Spectral Flow Cytometry Fundamentals Kate Pilkington	Imaging Cytometry Dr Henry Hui Dr Kathy Fuller Dr Paul Wallace Dr Jochen Behrends	Multiple Myeloma MRD Infinicyt Dr Ed Abadir	Era of Technical Specialists – Survey and Discussion Dr Pat Metharom Dr Catherine Rinaldi Eva Orlowski-Oliver ACS Technician Commitment Action Plan Update and Discussion ACS TC Taskforce
1000	CosMx Dr Thomas O'Neil Givana Putri	Spectral Panel Design Task Dr Florian Mair			
1030				Rarity Shankar Pattabhiraman	How to Grow your Flow SRLs Michael Thomson Professor Andy Filby & Alan Saluk Strategies for Success in Operating a Shared Resource Flow Cytometry Facility
1100					
1130		Spectral Panel Troubleshooting Dr Ainsley Davis		RCPA Haematology Immunophenotyping Update Loriza Khan	ISAC SRL Recognition Program – An interactive dive into the program application, benefits and reluctancies Eva Orlowski-Oliver
1200					

SUNDAY 30 NOVEMBER 2025 – Workshops

1230	Lunch and Learns			
–				
1400				
1400	Upcycling Someone Else's Data: Capitalising on Public Data Repositories Masterclass Session 2	Low Flow: Selecting a limited flow cytometry panel where resources are constrained Ailie Ross	Beyond Panel Design: Optimization Strategies for High-Quality, Reproducible Flow Cytometry Experiments Dr Kathryn Hally	Sample-Associated Biological Safety Assessment: A Scenario-Driven Workshop Avrill Aspland
1430	Visium Dr Felix Marsh-Wakefield Paul	Panel: Future of AI in Clinical Flow Cytometry		
1500	Neiwald	Working with the "weird" Dr Allison McInnes Dr Matthew Linden Dr Jochen Behrends Bay Sie Lim Joanna Roberts	Application of Cell Painting Techniques Using an Imaging Flow Cytometer Dr Haley Pugsley	
1530				
1600			Laser Beam Shaping with Diffractive Optics for Enhanced Flow Cytometry Jingjing Zhao	Join the mission: Advancing cytometry through publishing, reviewing, and editing Dr Bartek Rajwa Dr Jessica Houston
1630				
1645				