









SUNDAY 20 OCTOBER 2024

Pre-conference Workshops				Menzies Institute for Medical Research
0830	Registration			Foyer, 17 Liverpool Street Hobart
Room	Lecture Theatre			Room 205
0900-1030	How to go with the flow: an introduction to flow cytometry Kate Pilkington, Malaghan Institute of Medical Research			Science Communication Olly Dove That's What I call Science Limited to 30 people
1030-1100	Morning Refreshments			Room 113 -Kitchen/Foyer Area
1100-1230	CLINICAL WORKSHOP 2A	RESEARCH WORKSHOP 2B	SHARED RESOURCE LAB WORKSHOP 2C	BUILD YOUR OWN CYTOMETER
Room	Lecture Theatre	Room 207/208	Room 205	Room 206
1100-1215	Dr. Ben Hedley, Victoria Hospital, Canada	Interrogating immune cells from human tissue, including skin, type II mucosae and intestine: Considerations and consequences of isolation protocols to develop a high-parameter Optimized Multicolor Immunofluorescence Panels (OMIP) Dr. Kirstie Bertram, The Westmead Institute for Medical Research	Cell sorting best practice, tips and recommendations for maximum recovery of the populations that you want Dr. Vanta Jameson, University of Melbourne	Build your own cytometry Suat Dervish Limited to 24 people
1215-1230	Viable CD34 QAP Scott Ragg, Tasmanian Health Service			
1230-1300	Lunch and Learn – Join one of these sessions; and lunch is on our sponsors			THANK YOU TO OUR PLATINUM SPONSORS  
	LL1 – SYSMEX 	LL2 – SARTORIUS 	LL3- MILLENNIUM SCIENCE  	
Room	Lecture Theatre	Room 205	Room 207/208	
	Integration of high-parameter analysis and multi-autofluorescence on the FP7000 Spectral Cell Sorter Dr. Makoto Ishihara, Sony Biotechnology	iQue® High-Throughput Screening by Cytometry Nabiha Elias, PhD	Unleashing Advanced Multicolor Analysis with NovoCyte Opteon: Full Spectrum Flow Cytometry at Its Best Federica Tomay, PhD, Agilent	
1300-1330	Lunch Break Thanks to our sponsors for a delicious lunch. Available for those who attend a lunch and learn session.			Room 113 - Kitchen/Foyer Area

SUNDAY 20 OCTOBER 2024

1330-1500	CLINICAL WORKSHOP 3A	RESEARCH WORKSHOP 3B	SHARED RESOURCE LAB WORKSHOP 3C	BUILD YOUR OWN CYTOMETER
Room	Lecture Theatre	Room 207/208	Room 205	Room 206
1330-1405	Introduction to the Concepts of Computational High-Dimensional Flow Analysis and Practical Dr. Paul D. Simonson, Weill Cornell Medicine	Making Sense of Cytometry data in R Dr. Felix Marsh-Wakefield, Centenary Institute	Biosafety: What is it to you? Avrill Aspland, University of Sydney	(continued from morning session) Suat Dervish
1405-1425	Update on the National Certification Scheme for the Medical Laboratory Scientific Workforce Tina Pham, St Vincent's Hospital			
1425-1500	RCPAQAP – challenges in Immunophenotyping EQA Loriza Khan, RCPAQAP			
1500-1530	Afternoon Refreshments			Room 113 - Kitchen/Foyer Area
1630	Registration Desk open			
1530-1700	CLINICAL WORKSHOP 4A	RESEARCH WORKSHOP 4B	SHARED RESOURCE LAB WORKSHOP 4C	THANK YOU TO OUR PLATINUM SPONSORS  
Room	Lecture Theatre	Room 207/208	Room 205	
	ASK THE EXPERTS Panel Discussion	Mosaic integration of spatial multi-omics with SpaMosaic Dr. Jinmiao Chen, Singapore Immunology Network	Incorporating R&D in a Shared Resource Laboratory Dr. Rui Gardner, Memorial Sloan Kettering Cancer Center	
1730-1900	Icebreaker Event			
1730-1800	Arrival Drinks <i>Proudly sponsored by our Platinum Sponsors CYTEK & BECKMAN COULTER</i>			

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SUPPORTER



MONDAY 21 OCTOBER 2024

Plenary Session 1		Hotel Grand Chancellor, 1 Davey Street Hobart, Ballroom 2&3
Chair	Dr. Maggie Wang	
0845-0900	Conference Opening Welcome to Country – presented by Iris Wright President’s Welcome – Dr. Maggie Wang	
0900-0945	Flow Cytometry – From origins to twenty-second century perspectives Prof Marie C. Bene, Nantes University	
0945-1030	Furthering Avian Conservation Strategies: Generating Tools for Biobanking and Genetic Rescue in Birds Dr. Matthew Biegler, Rockefeller University	
1030-1100	Morning Refreshments <i>Proudly sponsored by BD</i>	Federation Ballroom, Exhibition Trade Area
Plenary Session 2		Ballroom 2&3
Chair	Scott Ragg	
1100-1145	Title TBA Dr. Ben Hedley, Victoria Hospital	
1145-1230	High-throughput screening coupled with Imaging Transcriptomics in 2D and 3D cell models Prof Kaylene Simpson, Peter MacCallum Cancer Centre	
1230 – 1300	Platinum sponsor presentation Multiple Myeloma: Diagnosis, Prognosis and Monitoring by Imaging Flow Cytometry Dr Kathy Fuller (Heel)	
1300-1400	Lunch Break – Check out what our exhibitors have got to offer. Don’t forget to scan to win some great prizes. <i>Proudly sponsored by CYTEK</i>	Federation Ballroom, Exhibition Trade Area
Breakout Session		
1400-1530	RESEARCH BREAKOUT SESSION 1 SRL INSTRUMENTATION	CLINICAL BREAKOUT SESSION 1 ONCOLOGY
Room	Grand Ballroom 2&3	Grand Ballroom 1
Chair	Rob Salomon	Dr. Archna Sharma
	Contributions of Melbourne Cytometry Platform to the enhancement of scientific discovery Dr. Vanta Jameson, University of Melbourne	Development of a highly sensitive multiple myeloma minimal residual disease spectral flow cytometry assay Dr. Edward Abadir, Royal Prince Alfred Hospital

MONDAY 21 OCTOBER 2024




	Using Spectral Cytometry to Investigate Novel Pre-conditioning Regimens in a Congenic Adoptive Immunotherapy Mouse Model Dr. Joanne Davis, Royal Melbourne Hospital	Blastic plasmacytoid dendritic cell neoplasms: BPDN Prof Marie C Bene, Nantes University
	Spatial mapping of the hepatocellular carcinoma landscape identifies unique intratumoral perivascular-immune neighborhoods Dr. Felix Marsh-Wakefield, Centenary Institute	Flow cytometry in the diagnosis of vitreoretinal lymphoma Prof William Sewell, St Vincent's Hospital Sydney
1530-1600	Afternoon Refreshments Federation Ballroom, Exhibition Trade Area	
1600-1700	RESEARCH BREAKOUT SESSION 2	CLINICAL BREAKOUT SESSION 2
		AUTOMATION
Room	Grand Ballroom 2&3	Grand Ballroom 1
Chair	Chrissie Ong	Deni Cupit
	Human Intestinal Dendritic Cells Are Dysregulated in Crohn's Disease Dr. Kirstie Bertram, The Westmead Institute for Medical Research	Automating Lymphoma Diagnosis with a 13-Colour Multiparametric Flow Cytometry Panel Tina Pham, St Vincent's Hospital Melbourne
	Single-cell RNASeq of Cerebral Spinal Fluid in Children with Brain Cancer Rob Salomon, CCI	LabPlus Networking the Flow Lab Joon Suan Lim, LabPlus
		The introduction of spectral flow cytometry into a diagnostic laboratory A/Prof Elizabeth Tegg, NSW Health Pathology
1730-1830	Poster Session – Light refreshments provided Federation Ballroom, Exhibition Trade Area	

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Plenary Session 3		Grand Ballroom 2&3
Chair	Joanna Roberts	
	Acknowledgement of Country	
0845-0930	Harnessing AI for Spatial Omics Analysis Dr. Jinmiao Chen, Singapore Immunology Network	
0930-1000	Applications of Computational and Artificial Intelligence in Clinical Cytometry Dr. Paul Simonson, Weill Cornell Medicine	
1000-1030	Platinum sponsor presentation Rarity SuperRCA, An Innovative mutation Detection technology : Bridging Molecular Biology and Flow Cytometry Dr. Shankar Pattebhiraman, Beckman Coulter	
		
1030-1100	Morning Refreshments <i>Proudly sponsored by THERMOFISHER</i>	
	Federation Ballroom, Exhibition Trade Area	
Plenary Session 4		Grand Ballroom 2&3
Chair	Eva Orlowski-Oliver	
1100-1145	A customizable murine spectral backbone panel for immune surveillance in complex tissues Dr. Rui Gardner, Memorial Sloan Kettering Cancer Center	
1145-1200	Gold sponsor presentation Harnessing imaging and spectral potential in flow cytometry with Attune™ flow cytometers Dr. Sai Praneeth Narla, Thermo Fisher Scientific Australia and New Zealand	
		
1200-1215	Gold sponsor presentation Unlock new discoveries using real-time imaging and spectral flow cytometry (RTI-SFC) Chia How Sim, BD Biosciences, Central South Asia and Japan	
		
1215-1315	Lunch Break – Time to visit the exhibitors and check out what’s new! <i>Proudly sponsored by BECKMAN COULTER</i>	
	Federation Ballroom, Exhibition Trade Area	

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TUESDAY 22 OCTOBER 2024

Plenary Session 5		Grand Ballroom 2&3	
Chair	Dr. Helen McGuire		
1315 – 1430	High performing teams and psychological safety, fireside chat about opportunities, logistics and benefits of mentor/menteeship and facilitated networking session Broken up into three sections, this session will cover psychological safety and the correlation with high performing teams, what is it, why it is important and how we can increase it in the workplace. Mentor and mentee roles within SRL’s, Q & A discussion with Eva Orlowski-Oliver and Prof. Kaylene Simpson about the benefits, logistics and opportunities that come with mentorship. Finishing with small group mentor/mentee opportunities from different areas including research, SRL, clinical, commercial and industry. <div>TAKE THE QUIZ</div>		
1430-1500	Afternoon Refreshments		Federation Ballroom, Exhibition Trade Area
1500-1700	RESEARCH BREAKOUT SESSION 3	CLINICAL BREAKOUT SESSION 3 NON ONCOLOGY	
Room	Grand Ballroom 2&3	Grand Ballroom 1	
Chair	Oliver Eltherington	Susan Wright	
	A Workflow for Longitudinal Biomarker Discovery Studies in Human Disease Dr. Kathryn Hally, University of Otago	Utility B cell subset analysis by Flow cytometry – Beyond B cell malignancies A/Prof Pravin Hissaria, Royal Adelaide Hospital	
	Environmental sustainability in STEMM and a role for shared resourced laboratories Dr. Darryl Johnson, University of Melbourne	TBA Dr. Ben Hedley, Victoria Hospital	
	Enabling imaging features in single cell RNA sequencing analysis Dr. Wenyan Li, Children’s Cancer Institute Australia		
	Comprehensive Immunophenotyping Reveals Immune Hallmarks of Psoriatic Multiple Sclerosis Sub-type Dr. Varitsara Mangkorntongsakul, University of Sydney		
	Understanding Inflammatory Mononuclear Phagocyte Heterogeneity in Human Anogenital Tissue Freja Warner Van Dijk, The Westmead Institute for Medical Research	Preservation of Functionality, Immunophenotype and Recovery of HIV RNA from PBMC’s Cryopreserved for more than 20 years Prof John Zaunders, St Vincent’s Hospital Sydney	
1830-2230	Gala Dinner Theme – Aurora Australis After Party 2230-Late		Waterline Brooke St Pier Lower Level 12, Franklin Wharf

WEDNESDAY 23 OCTOBER 2024

Plenary Session 6		Grand Ballroom 2&3
Chair	Chrissie Ong	
	Acknowledgement of Country	
0845-1015	TASMANIAN MADE Ribonucleoprotein delivery to Salmonid sperm for high-throughput gene editing Amanda Patchett, CSIRO Characterizing Plankton Communities in Oceans Using Flow Cytometry Lennart Bach, Institute of Marine & Antarctic Science Cytometric methods for developing and validating a Tasmanian devil facial tumour vaccine Andy Flies, University of Tasmania	
	Education in the threshold of basophil activation testing by flow cytometry is a useful biomarker to predict outcomes after immunotherapy in patients with anaphylaxis to Jack Jumper ant venom Dr. Emily Mulcahy, Royal Hobart Hospital Using high dimensionality flow to assess models of bone marrow failure syndromes Kirsten Fairfax, University of Tasmania	
1015-1045	Morning Refreshments	Federation Ballroom, Exhibition Trade Area
Plenary Session 7		Grand Ballroom 2&3
Chair	Dr. Matthew Linden	
1045-1215	EARLY/MID CAREER CYTOMETRISTS Imaging Flow Cytometric Detection of amp(1q21) and del(17p) "Double-Hit" Abnormalities in Myeloma Plasma Cells Thomas Mincherton, The University of Western Australia Lessons Learnt: Establishment of a benchmark cytometric immune phenotyping workflow for multi-center clinical trials Natalie Smith, University of Sydney The application of deep learning for better batch effect removal allows detection of subtle cellular phenotypes in very large flow datasets Dr. Ben Mashford, John Curtin School of Medical Research, ANU	
	High-throughput cultivation of the faecal microbiome using flow cytometry Dr. Allison McInnes, Queensland University of Technology The Art of Juggling: Internal users versus External Clients in a NATA Accredited SRL Dr. Elizabeth McDonald, QIMR Berghofer An in situ quantitative map of mononuclear phagocytes across human mucosal tissue using high parameter imaging platforms Dr. Thomas O'Neil, The Westmead Institute for Medical Research	
1215-1315	Lunch	Federation Ballroom, Exhibition Trade Area
	Last chance to connect with our sponsors and exhibitors.	
1315 - 1430	ACS 2024 AGM AND CONFERENCE AWARDS	
Chair	Dr. Maggie Wang	
	Conference close	

POSTERS

CHECK OUT THE POSTER DISPLAY FROM MONDAY TO WEDNESDAY.

Poster authors are reminded to collect their poster by close of lunch on Wednesday, otherwise it may be disposed.

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#	AUTHOR	ORGANIZATION	PAPER TITLE
1	Claudia Bramley	Flowjoanna	Optimising genome size measurement of kuku/green-lipped mussel/Perna canaliculus by flow cytometry
2	Nancy Cai	NSW Health Pathology	Acute Megakaryoblastic Leukaemia Associated with Mediastinal Germ Cell Tumours
3	Dr. Ya-Ting Chuang	National Taiwan University Hospital	GATA-3 regulates the effector lineage differentiation of iNKT cells through ICOS
4	Dr. Joanne Davis	The Royal Melbourne Hospital	Ibrutinib Protects T cells in Patients with CLL from Proliferation-induced Senescence
5	Dr. Melinda Dean	University of the Sunshine Coast	Analysis of soluble inflammatory mediators in human breast milk by flow cytometry
6	Suat Dervish	The Westmead Institute for Medical Research	A Novel Cytometry Reference Control Bead With Advantages
7	Oliver Eltherington	The University of Melbourne	Sorter PDR: Quantitatively evaluating a new sorter for the SRL
8	Jennifer Gleadhill	Queensland Public Health and Scientific Services	Mast Cell Leukaemia - A rare and aggressive entity not to be missed in the flow cytometry laboratory
9	Shayli Harris	Royal Hobart Hospital	A Mysterious Case of Burkitt Lymphoma
10	Gavin Hirst	Beckman Coulter Life Sciences	A flow cytometry approach for the characterization and isolation of extracellular vesicles
11	Gavin Hirst	Beckman Coulter Life Sciences	"A Prototype Approach for the Detection of Spectral Data Using 88-Channel Detection System and a CytoFLEX LX Flow Cytometer"
12	Gavin Hirst	Beckman Coulter Life Sciences	Fostering Consistency in EV-Based Vaccine Development and Clinical Trials: Advancing Towards Standardization
13	Gavin Hirst	Beckman Coulter Life Sciences	MISEV 2023 : Isolation and characterization of extracellular particles
14	Gavin Hirst	Beckman Coulter Life Sciences	Optimizing a workflow for the analysis of extracellular vesicles
15	Dr. Sedi Jalali	Murdoch Children's Research Institute	Blood Biomarker Discovery: High-Dimensional Blood Immune-Profiling in Children with Different Disease Settings Showed Major Age-Related Changes in Proportion of Immune Cells
16	Na Kang	Pathology Queensland	Distinguishing immature and mature monocytes by Flow Cytometry – An Old Topic Revisited
17	Prof Roslyn Kemp	University of Otago, Otakou Whakaihu Waka	Integrating Complex Immunology into Clinical Cancer Trials
18	Dalia Khalil	Translational Research Institute	A Protocol for Small Particle Calibration in a Flow Cytometry Shared Resources Laboratory Context
19	Dr. Edwin Lau	The Westmead Institute for Medical Research	Utilising TauSense separation to enhance signal to noise ratio in the microsphere-based aerosol containment assay

POSTERS

#	AUTHOR	ORGANIZATION	PAPER TITLE
20	Mandy Li	Peter MacCallum Cancer Centre	Flow Cytometric Quantification and Absolute Counting between Neat and Washed Samples in Lithium Heparin and EDTA
21	Dr. Matthew Linden	The University of Western Australia	Application and adaptation of an experiential, learning-by-doing approach to clinical and research flow cytometry training
22	Dr. Kevin Lo	Cellcarta	Multi-Site Instrument Alignment Using Lyophilised BD™ CompBeads
23	Sean Macdonald	Peter MacCallum Cancer Centre	Leveraging mass cytometry to identify prognostic immune subsets in paediatric B-ALL patients undergoing CD19 CAR-T cell therapy
24	Eva Orlowski-oliver	Peter MacCallum Cancer Centre	Psychological Safety in a Shared Resource Laboratory (SRL)
25	Fatima Panetta	PETERMAC	Investigation of Fluorescent activated cell sorting (FACS) purity using varied sort masks
26	Geza Paukovics	Flowlogic Software	Are Manual Gating Approaches to Complex Data Analysis still the best way to go? FlowLogic provides Solution!
27	Geza Paukovics	Flowlogic Software	Still Fixing Spectral Unmixing Errors Manually? FlowLogic provides Solution!
28	Jack Pepper	Telethon Kids Institute	Characterising The Immune Response To A Novel Intranasal Vaccine For Otitis Media Prevention using Spectral Flow Cytometry
29	Dina Ragab	Peter MacCallum Cancer Centre	A new assay for B-cell development and MRD assessment in the immunotherapy era
30	Dr. Catherine Rinaldi	The University of Western Australia	Going with the Flow: Riding the Waves of Instrument Usage in a Western Australian Flow Cytometry Shared Resource Facility
31	Joanna Roberts	Flowjoanna	Examining cells in cow milk using natural autofluorescence
32	Christina Swart	Te Whatu Ora - Canterbury	A case of myeloid neoplasm post cytotoxic therapy, subtype acute erythroid leukaemia
33	Sarah Tan	NSW Health Pathology	Systematic Troubleshooting Of Antibody Aggregates In Diagnostic Flow Cytometry
34	Kristie Theodore	Pathology Queensland	CD4+ recent thymic emigrant enumeration is a useful tool in differentiating causes of T-cell lymphopenia detected by newborn screening
35	Dr. Margaret Veale	La Trobe University	Estimating Genome Size and Ploidy of Plant Species using Flow Cytometry
36	Susan Wright	Royal Hobart Hospital	Flow cytometry and coeliac disease - A retrospective review of testing at the Royal Hobart Hospital

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