

50th Annual Scientific Meeting of the Australian and New Zealand Society for Immunology 2022
TUESDAY 29 November 2022 - FRIDAY 02 December 2022
 Melbourne Convention and Exhibition Centre

As at 23 November 2022
 Tuesday, 29 November 2022

Registration Desk Open
Level 1

Plenary 1
Plenary Session 1

Chairperson: Mark Chong, Kate Stacey, Diana Hansen

Opening Ceremony & Welcome to Country

Plenary 1 - Unravelling the logic of microbiota-instructed T cell differentiation
Dan Littman

Plenary 2 - Macrophages actin' up during inflammatory signalling
Kate Schroder

Equity Diversity & Inclusion Session
Marguerite Evans Galea

Morning Tea
Level 1

Concurrent Symposia Session 1

Plenary 1

105&106

109&110

103

104

101&102

111&112

Tumour Immunology & Immunotherapies

Infection & Immunity

Innate Immunity

Chairperson: Phillip Darcy, Rachel Zemek

Chairperson: Iona Schuster, Nicole Moreland

Chairperson: Marcia Munoz, Antonio Ferrante

11:00 Extending the applicability of CAR-T cells for hematologic malignancies
Helen Heslop

460: RIPK1: a master regulator of cellular immunity and intestinal homeostasis and the risk of therapeutic targeting
Jaclyn Pearson

Tricks to triggering TB traps
Anna Coussens

11:25 Targeting hypoxia to improve immunotherapy of solid tumours
Ian Hermans

Dissecting interactions between malaria parasites and their host
Tania De Koning-Ward

The last dance of a dying cell
Ivan Poon

11:50 Optimising CAR-T cell therapies for brain tumours
Lisa Ebert

How macrophages shape innate immune responses during influenza A virus infection
Sarah Londrigan

Brain-gut axis in stroke
Connie Wong

12:15 Enhancing cancer immunotherapy with systems immunology
Jason Waithman

T cell vaccines against Zika virus
Branka Grubor-Bauk

An immunometabolic switch that controls macrophage inflammatory and antimicrobial pathways
Matthew Sweet

12:40 Immune evasion by allogeneic transmissible cancers in Tasmanian devils
Andrew Flies

29: A history of obesity increases influenza severity in NLRP3-dependent manner
Kirsty Short

18: New innate lymphoid cell determinants of lung protection and homeostasis
Gabrielle Belz

Lunch
Level 1

101&102

ICB/CTI Board Meeting

109&110

Science Communication Session

Chairperson: Thomas Brodnicki

Gustavo Rodrigues Rossi

Knowing where to go: the co-ordinated chaos of cell migration

Raymond Qin

Move over orange! Cytokines are the new black

Marina Yakou

Identification of Tissue-resident T cell responses in HIV+ patients at risk of developing HPV-driven anal cancer

Rehana Hewavisenti

Retaining organ defences after transplantation

Sarah Dart

Molecules derived from infectious microbes worsen ectopic bone formation after spinal-cord injury

Selwin Samuel

Concurrent Themed Session 1							
	1. Plenary 1	2. 105&106	3. 109&110	4. 103	5. 104	6. 101&102	7. 111&112
	Tumour Immunology 1	T cells 1	Inflammation	Human & Clinical Immunology 1	COVID-19	Autoimmunity & Transplantation	Vaccines
	Chairperson: Anne Fletcher, Ankur Sharma	Chairperson: Rhys Allan, Iain Comerford	Chairperson: Andrew Murphy, Dani Dixon	Chairperson: Stuart Manning, Joanne Reed	Chairperson: Kirsty Short, Emma Grant	Chairperson: Helen Thomas, Raymond Steptoe	Chairperson: Amy Chung, Jennifer Juno
14:30	80: Interrogating the tumour microenvironment in hepatocellular carcinoma Felix Marsh-Wakefield	81: Mapping the commitment of haematopoietic progenitors to the T cell lineage Dhruvi Parikh	47: Ikbb Gain-of-Function results in NF-kB-mediated expansion of IL-17+ Tregs And psoriatic arthritis Chelisa Cardinez	42: Analysis of Receptor abundances in Multiple Sclerosis to determine treatment regime Katharina Robichon	112: Long-lived Anti-cytokine Autoantibodies Associated With Post-covid-19 Sequalae Catherine Chen	177: Multi-omic Profiling of Rogue Lymphocytes in Coeliac Disease Raymond Louie	90: immunization With Inactivated Whole Virus Particle Influenza Virus Vaccines Improves The Breadth Of Humoral Responses In Cynomolgus Macaques Brendon Chua
14:40	213: Control of anti-tumour immunity by the sympathetic nervous system Sapna Devi	118: Immunoprofiling of Natural Killer and T Cells Reveals Heterogeneity in Inhibitory and Activating Receptor Expression Eric Alves	93: Oxysterols drive inflammation via GPR183 during Influenza A virus and SARS-CoV-2 infection. Cheng Xiang Foo	119: Characterization of the pathoimmunology of necrotizing enterocolitis reveals novel therapeutic opportunities Claudia Nold	185: Increased abundance of type I and II interferon-expressing neutrophils during convalescence in individuals with previous severe COVID-19 Dylan Sheerin	323: Terminal T-cell exhaustion in islet antigen-specific CD8+ T cells prevents autoimmune diabetes David De George	92: Glycolipid-peptide conjugate vaccines elicit CD8+ T-cell responses and prevent breast cancer metastasis Olivia Burn
14:50	283: Dissecting the mechanisms of type I interferon-driven anti-tumour immunity to enhance cancer control Hannah Newnes	223: Human Vγ9Vδ2+ T cell thymic development defined by distinct molecular changes. Louis Perriman	190: Inhibition of inflammatory immune cell trafficking into the CNS by a novel heparan sulfate mimetic Tessa Peck	157: Inflammatory T cells result in epithelial damage in patients with Crohn's disease Gemma Laws	148: Protein Vaccine Candidate based on the SARS-CoV-2 Spike Receptor Binding and N Terminal Domains Provides Protection in Mice against SARS-CoV-2 Variants of Concern Isabelle Stewart	331: Rare SH2B3 coding variants identified in lupus patients breach B cell tolerance and predispose to autoimmunity Yaoyuan Zhang	143: Mucosal immunization with a delta-inulin adjuvanted SARS-CoV-2 vaccine elicits lung-resident immune memory and protects mice against SARS-CoV-2 Erica Stewart
15:00	297: CD4+ T cells and the role of MHC class II expression in melanoma Immunovigilance. Emma Bawden	271: Human Vγ9Vδ2 T cells develop within the postnatal thymus defined by distinctmolecular and cellular changes Daniel Pellicci	245: Diet at birth is critical to prevent early systemic inflammation, ensuring healthy growth independent of the microbiota Valerie Verhasselt	180: Somatic STAT5B and KRAS variants associated with a case of early-onset inflammatory bowel disease Julia Forkgen	282: Robust SARS-CoV-2 T cell immunity towards COVID-19 vaccines in blood cancer patients in the presence and absence of B cells Oanh Nguyen	390: PD-1+CD4+ T cells induce cross-tolerance to suppress islet-specific CD8+ T cells via modulation of cDC2s Emma Hamilton-Williams	199: Identifying key targets for CD8+ tissue-resident memory T cell based malaria vaccine Zhengyu Ge
15:10	373: Hematopoietic cell kinase signaling in tumour associated macrophages regulates tumour growth Michael Murrey	307: Interplay of type I and II interferons for the generation of CD8+ stem-like memory T cells Benjamin Broomfield	375: THE UNEXPECTED FORMATION OF "THE FOOTPRINT OF DEATH" DURING APOPTOSIS Stephanie Rutter	189: Understanding transcriptional heterogeneity of immune cells across many individuals using single cell studies Kirsten Fairfax	292: High titre neutralizing antibodies in response to SARS-CoV-2 infection require RBD-specific CD4 T cells that include proliferative memory cells. Chansavath Phetsouphanh	408: Exploring the utility of antibody epitopes in predicting a relapsing disease course in MOGAD Ganesha Liyanage	231: Understanding immune responses towards COVID-19 BNT162b2 vaccines in Indigenous people Wuji Zhang
15:20	403: Pancreatic ductal adenocarcinoma genotype shapes tumour infiltration efficiency of cytotoxic T lymphocytes Daryan Kempe	479: Age-related cellular and molecular mechanisms limiting thymic regeneration Daniel Gray	336: Building a macrophage-based screen for identifying novel immunomodulatory compounds Blake Sullivan-Hill	291: The role of regulatory T cells in remyelination, following kappa opioid receptor agonist treatment. Mackenzie Kiernan	458: Pre-existing interferon gamma responses condition the lung to support early control of SARS-CoV-2 infection Kerry Hilligan	482: Autoantibodies in Acute Rheumatic Fever: from pathogenesis insights to biomarker development Nicole Moreland	260: Improving mRNA vaccine-induced cellular immune responses with novel NKT cell agonists Mitch Ganley
15:30	412: Single-cell and spatially resolved analysis of tissues by integrated RNA and protein multi-omics identifies novel tumour-infiltrating lymphocyte phenotypes Ghamdan Al-Eryani	496: A novel role of GPR109A in thymic regulatory T cell development Duan Ni	470: The NLRP3 inflammasome is regulated by high temperature in an endogenous negative feedback mechanism that limits inflammation Rebecca Coll	381: Elucidation and treatment of ITK mediated autoimmunity through personalised medicine Maurice Stanley	530: A deep profiling of the SARS-CoV-2 immunopeptidome with a broad coverage of the viral genome Asolina Braun	505: B3GNT2 Dependant ligands are Essential to Uphold the Tolerance of IGHV4-34 and Prevent Autoantibody Secretion Christopher Jara	386: Human lymph node explant model for studying vaccine adjuvants Vicki Stylianou
15:40	497: The immune agonist anti-CD40 turns up the heat on immune cold colorectal cancer Stephen Blake	525: Our evolving understanding of the role of the γδ T cell receptor in γδ T cell immunity Benjamin Gully	471: Targeting MIF family cytokines to regulate inflammation Jim Harris	468: T cells in the pleural effusion and peripheral blood of mesothelioma patients are phenotypically distinct Nicola Principe	539: A role for post-translationally modified T cell epitopes in immunity towards SARS-CoV-2 Patricia Illing	96: peptide-specific T Cell Alloreognition Suggests A New Approach For Preventing Transplant Rejection. Nicole Mifsud	455: Humoral epitope dominance and immune imprinting by SARS-CoV-1 and SARS-CoV-2 Vaccines Deborah Burnett
15:50	590: Cancer cells that undergo vasculogenic mimicry, can also express ICAM-1 and actively recruit circulating monocytes Claudine Bonder	531: Dendritic cell intrinsic Ezh2 expression maintains thymic homeostasis and prevents premature thymic involution Sint Thida Bo	557: Pro-survival protein A1 limits myeloid cell death and NLRP3 inflammasome activation Kate Lawlor	584: Investigating GAD65-CAR Tregs as a Novel Therapy for Type 1 Diabetes Jacqueline Scaffidi	566: Pharmacological inhibition of TBK1/IKKε blunts COVID-19 immunopathology Michael Gantier	193: The immune response to solid organ transplantation in peripheral lymphoid organs Michaela Lucas	568: Immunological memory response following reduced-dose pneumococcal vaccination schedule Satvika Soppadandi
Ground Floor							
16:00	Poster Session 1						
Plenary 1							
17:30	25th Anniversary Celebration of Peter Doherty & Rolf Zinkernagel's Nobel Prize						
Location	Melbourne Public						
18:30 - 20:00	Welcome Reception						

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AEDT Wednesday, 30 November 2022

7:00 **Registration Desk Open**
Level 1

Room **Plenary 1**

Plenary Session 2

Chairperson: Scott Mueller, Andrew Haman, Matt Sweet

08:10 Plenary 3 - Molecular mechanisms of T cell exhaustion
John Wherry

08:50 Plenary 4
Mariapia Degli-Esposti

09:30 Plenary 5
Florent Ginhoux

10:15 **Morning Tea**
Level 1

Concurrent Symposia Session 2

	Plenary 1	105&106	109&110	103	104	101&102	111&112
	T-Cells	Mucosal Immunology	Human & Translational Immunology				
	<i>Chairperson: Connie Jackaman, Simon Barry</i>	<i>Chairperson: Lisa O'Connor, Simon Phipps</i>	<i>Chairperson: Julia Ellyard, Michaela Lucas</i>				
11:00	Programming T Cell Therapies with CRISPR Alex Marson	Cellular mechanisms of antibody induction to food allergens Stephanie Eisenbarth	IKBNS deficiency - a novel inborn error of immunity Vanessa Bryant				
11:25	Balancing diversity and specificity; rules for T cell receptor signalling Nicole La Gruta	Defining new molecular pathways in gastric B-cell MALT lymphoma associated with Helicobacter infection Richard Ferrero	Distinct neonatal immunity- implications for susceptibility to infection Simone Schueller				
11:50	STING activation promotes autologous type I interferon-dependent development of type 1 regulatory T cells during malaria Christian Engwerda	Small intestinal resident eosinophils maintain gut homeostasis following microbial colonisation Nicola Harris	Understanding the role of dysregulated PI3K signalling in immunodeficiency and immune dysregulation – differences between APDS1 and 2 Elissa Deenick				
12:15	T cell-bacteria interactions in Crohn's disease patients Roslyn Kemp	Multi-omics to elucidate the pathogenesis and define new therapeutics for respiratory disease Philip Hansbro	Deborah Stickland				
12:40	11: Gene delivery of interleukin 2 protects against pathological neuroinflammation Adrian Liston	110: mucosal Inflammatory And Antibody Responses Associated With Protection And Disease After Human SARS-CoV-2 Challenge Ryan Thwaites	19: Human fetal immunity and microbial priming in early life Archita Mishra				

13:00 **Lunch**
Level 1

Plenary 1

13:30 **ASI Annual General Meeting**

Concurrent Themed Session 2

	Plenary 1	105&106	109&110	103	104	101&102	111&112
	T-Cells 2	Infection & Immunity 1	Immunotherapies	Best of ICB/CTI Session	Human & Clinical Immunology 2	B cells & Comparative Immunology	Stromal Immunology, Immunometabolism & Antigen
	<i>Chairperson: Di Yu, Daniel Gray</i>	<i>Chairperson: Bernadette Saunders, Antje Blumenthal</i>	<i>Chairperson: Fernando Guimaraes, Yu Yu</i>	<i>Chairperson: Anne La Flamme, Rajiv Khanna</i>	<i>Chairperson: Umaimainthan Palendira, Bree Foley</i>	<i>Chairperson: Anselm Enders, Dimitra Zotos</i>	<i>Chairperson: Mireille Lahoud, Daryan Kempe</i>
14:30	56: A single regulatory T cell pool patrols the tissues Oliver Burton	168: Generating effective resident memory T cell immunity against malaria Daniel Fernandez-Ruiz	27: The immune checkpoint TIGIT limits anti-bacterial immunity and is a potential target for immunotherapy in infectious disease Timothy Mcculloch	596: Tolerance induction by liposomes targeting a single CD8 epitope IGRP 206-214 in a model of type 1 diabetes is impeded by co-targeting a CD4 + islet epitope Irina Buckle	136: Immunostaging to better predict the risk of relapse in stage III melanoma patients Elnaz Tavancheh	38: IL-21 acts beyond the immunological synapse to establish and sustain germinal center dynamics. Isaak Quast	135: Lymph node homeostasis and adaptation to immune challenge resolved by fibroblast network mechanics Harry Horsnell
14:40	247: Spatial dysregulation of T follicular helper cells impairs vaccine responses in ageing Alyssa Silva Cayetano	233: IRF7 deficiency explains life-threatening respiratory viral infections in otherwise healthy humans Tessa Campbell	78: Transgene doubles as a safety switch and selection marker for CAR T-cells Patricia Rubio-Reyes	597: The liver contains distinct interconnected networks of CX3CR+ macrophages. XCR1+ type 1 and CD301a+ type 2 conventional dendritic cells embedded within portal tracts Kieran English	139: GD2-specific Chimeric Antigen Receptor T cells for treatment of adult and childhood brain cancer Tessa Gargett	57: immune Cell Trafficking In Human Lymph Nodes Saem Park	145: Distinctive fibroblastic populations in tumors provide unique microenvironment for T lymphocytes Jennifer Eom

14:50	286: Core and pathogen-specific transcriptional networks of T follicular helper cells Lennard Dalit	270: Chemokines initiate the Herpes Simplex Virus relay through human DCs Smith Jacinta	138: Harnessing antibody drug conjugate-mediated pyroptosis to ignite anti-tumour immunity in mouse models of breast cancer Nicole Wittwer	598: Poor protective potential of influenza nucleoprotein antibodies despite wide prevalence Hillary Vanderven	146: High-dimensional flow cytometry analysis reveals distinct shifts in macrophage phenotypes following treatment with extracellular vesicles released by adipose-derived stem cells. Kathryn Hally	67: The role of Ki67 in early lymphocyte development Zhoujie Ding	335: 3D imaging and topological mapping of blood and lymphatic channel systems in entire murine lymph nodes Inken Kelch
15:00	378: Pim kinases modulate T cell homing and effector functions via transcriptional and translational mechanisms Julia Marchingo	277: High expression of CD38 and MHC class II on CD8+ T cells during severe influenza disease reflects bystander activation and trogocytosis Xiaoxiao Jia	160: CDK4/6 Inhibition Promotes Anti-tumor Immunity through the Induction of T-cell Memory Emily Lelliott	595: Allogeneic CD20-targeted $\gamma\delta$ T cells exhibit innate and adaptive antitumor activity in preclinical B cell lymphoma models Kevin Nishimoto	228: Working towards 95% global coverage for broadly cross-reactive influenza-specific CD8+ T cell immunity in Indigenous Australians Louise Rowntree	173: Local and recirculating memory B cells have distinct cellular dynamics, molecular, and cell fate potential Rama Dhenni	32: Microbiota-dependent metabolite butyrate induces Th1 polarisation and direct melanoma cell killing Ariane Lee
15:10	421: Poor maternal diet predisposes to allergic asthma in the offspring by perturbing the development of T-follicular helper cells in early life Ismail Sebina	341: Protective immune mechanisms induced by the RTS,S malaria vaccine in a paediatric phase IIb clinical trial Lirlye (lydia) Kurtovic	169: ibrutinib Protects T Cells In Patients With CLL From Proliferation-induced Senescence. Joanne Davis	599: Inhibition of renal fibrosis with a human CXCL9-derived glycosaminoglycan-binding peptide Fariba Poosti	258: Longitudinal analysis of circulating immune cell subsets in melanoma patients treated with immune checkpoint inhibitor immunotherapy Rebecca Simpson	232: ZEB2 regulates the development of CD11c+ atypical B cells Xin Gao	427: HDAC7 is an immunometabolic switch in macrophages, interpreting different types of danger to engage inflammatory versus antimicrobial responses Kaustav Das Gupta
15:20	463: A unique epigenomic landscape defines CD8+ tissue-resident memory T cells Raissa Fonseca	406: Dissecting liver resident CD4 memory T cells and protection against liver stage malaria. Lynette Beattie	182: Investigating the Signalling and Function of CAR T-cells Containing a TLR2-derived Co-stimulatory Domain. Yasmin Nouri	679: A rapid whole-blood assay to detect SARS-CoV-2-specific memory T-cell immunity following COVID-19 vaccination Katie Lineberg	309: Type 2 immune polarization is associated with cardiopulmonary disease in preterm infants Marcel Nold	259: DOT1L is an essential epigenetic determinant for B-lymphopoiesis, the formation of germinal centres and effective antibody responses Liam Kealy	69: Unravelling the roles of haematopoietic thymic antigen presenting cells in unconventional T cell development Yi Wang
15:30	547: Discrete tissue microenvironments instruct diversity in resident memory T cell functionality Susan Christo	438: Dengue virus infection disturbs gastrointestinal barrier integrity function to exacerbate disease pathogenesis Jaehyeon Kim	207: Identifying Optimal Gene Promoters for CRISPR-HDR Generated Armoured CAR T cells Kah Min Yap		314: Deep Profiling of Chronic Lymphocytic Leukaemia (CLL) and Healthy Immune Cells by Mass Cytometry Resolves Impacts of Venetoclax Pressure Charis Teh	367: Epigenomic regulation of memory B cells in acute vs. chronic viral infection Lucy Cooper	114: Discovery of MR1-expressing cells in vivo Jieru Deng
15:40	558: Runx3 drives a CD8+ T cell tissue residency program that is absent in CD4+ T cells Thomas Burn	585: N-linked glycans shape skin immune responses and arthritic disease after intradermal infection with Ross River virus Ali Zaid	235: Systemic targeting of Pi3k delta with localised anti-LAG3 therapy is an effective anti-cancer approach with reduced immune-related adverse events. Sarah Lauder		410: Abnormal transcriptomic signature accompanies regulatory T cell deficiency in women with recurrent pregnancy loss Kerrie Foyle	417: Otitis-Prone children have reduced Haemophilus influenzae Protein D specific memory B-cells, and increased T follicular helper cells compared to non-otitis-prone children Sharon Clark	123: High Throughput ELISA Screen to Identify Novel cDC2 to Th2 Protein Interactions Kaitlin Buick
15:50	560: High Salt Diets Promote a TH17 cell Driven Gut-Bone Axis to Regulate Haematopoiesis and Atherosclerosis. Olivia Cooney	490: Understanding the role of PRC1 during CD8+ T cell responses to virus infection Thomas Bruer	296: Investigating the therapeutic efficacy of immunomodulator TEPP46 in Chronic Obstructive Pulmonary Disease (COPD) Shatarupa Das		430: Cell and tumour-region dependent progression in head and neck cancer revealed by high-dimensional spatial analysis Angela Ferguson	516: Expression of endogenous retroviral elements in devil facial tumour cells Anuk Kruawan	325: A novel role of antigen presentation by dendritic cell apoptotic bodies Amy Hodge
Ground Floor							
16:00	CSL Burnet Oration Reception / Poster Session 2						
Plenary 1							
17:30	Burnet Oration - The immune system: A beneficiary of sun exposure Prue Hart						

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 Thursday, 01 December 2022

7:00	Registration Desk Open Level 1					
Room	Plenary 1					
	Plenary Session 3					
	Chairperson: <i>Justine Mintern, David Tarlinton, Ranjany Thomas</i>					
08:00	Plenary 6 - Cell Shape Sensing in Dendritic Cells Ana-Maria Lennon					
08:40	Plenary 11 - (Getting closer to) The truth about antigen abundance and T cell responses David Tschärke					
09:20	Plenary 8 - Transmembrane adaptor-mediated inflammatory signalling in macrophages Jennifer Stow					
10:00	Morning Tea Level 1					
	Pfizer New Investigator Session					
	Chairperson: <i>Prue Hart, Meredith O'Keeffe</i>					
10:35	179: A heterozygous kinase-dead mutation of Colony Stimulating Factor 1 Receptor results in a permissive environment for bone marrow donor cells to take up residence in multiple organs Jennifer Stables					
10:45	186: Defining the factors that strategically position memory T cells within lymph nodes Brigitte Duckworth					
10:55	230: CRISPR/Cas9 Engineering of Next Generation Armoured CAR T Cells Amanda Chen					
11:00	276: Development of induced pluripotent stem cell-derived natural killer cells targeting breast cancer cells Gustavo Rodrigues Rossi					
11:05	287: Differential NK cell and $\gamma\delta$ T cell activation in SARS-CoV-2-infected pregnant women Jennifer Habel					
11:25	374: Immunosuppressive drugs differentially impact donor leucocyte retention following mismatched kidney transplantation in mice Sarah Dart					
	Concurrent Symposia Session 3					
	Plenary 1	105&106	109&110	103	104	101&102
	B cells	Dendritic Cells & Antigen Presentation	Systems Immunology			
	Chairperson: <i>Kim Good-Jacobson, Tina Nguyen</i>	Chairperson: <i>Sammy Bedoui, Georgina Clarke</i>	Chairperson: <i>Shalin Naik, Archita Mishra</i>			
11:45	Germinal centres in ageing, how B cells lose their help Michelle Linterman	Neuronal Control of Cutaneous Inflammation Dan Kaplan	A systems vaccinology study to assess how innate and early adaptive responses to the BNT162b2 or ChAdOx1-S COVID-19 vaccines correlate with subsequent immunogenicity and reactogenicity David Lynn			
12:10	B cells in Hyper IgE Syndrome Cindy Ma	Human cDC1 as cancer therapeutics Kristen Radford	Unravelling novel epigenetic mechanisms underpinning SARS-CoV-2 infection and implications for novel epi-therapies Sudha Rao			
12:35	Novel mechanism of cell transformation in Chronic Lymphocytic Leukemia Fabienne Mackay	Dendritic cell signals that drive Th2 differentiation in skin Franca Ronchese	Dissecting the Cellular Composition During CAR T-cell Therapy Using Single Cell Multiomics Fabio Luciani			
13:00	74: Fundamental differences in the transcriptome and phenotype of long-lived and newly formed plasma cells Marcus Robinson	Dendritic cells regulate the balance between immunity and homeostasis to inhaled antigens - distinguishing between the "harmful" and the "harmless" Linda Wakim	T cell fate determination Sarah Russell			
13:30-14:30	Lunch Level 1					

101&102							
13:30-14:25 Education Special Interest Group Workshop							
Cheers-Bushan Education Award Winner (TBA)							
188: Combining an online simulation and face-to-face learning to teach laboratory concepts Maurizio Costabile							
506: Looking forward and back - how has COVID-19 changed our approach to teaching theoretical and laboratory immunology? Maria DeMaria							
304: Rubrics for assessing HDRs Samy Sakal							
Concurrent Themed Session 3							
Plenary 1	105&106	109&110	103	104	101&102	111&112	
Infection & Immunity 2	Tumour Immunology 2	Mucosal Immunology	T cells 3	Innate Immunity	Structural & Molecular Immunology	Late Breaking Abstracts - Concurrent Themed Session 3	
Chairperson: Isabelle Stewart, Inken Kelch	Chairperson: Paul Beavis, Claudine Bonder	Chairperson: Lisa Mielke, Sevenine Navarro	Chairperson: Olivia Burn, Ajith Vasanthakumar	Chairperson: Seth Masters, Kate Lawlor	Chairperson: Kevin Aaron Fenix, Matthew Call	Chairperson: Clare Slaney, Nicole Mifsud	
14:30	24: Developing a new model of CD4-mediated Chlamydia clearance within the female reproductive tract Stephen Mcsorley	45: Uncovering effector mechanisms of T cell-engaging bispecific antibody. Mika Casey	71: Laboratory mice with a wild microbiota generate strong acute allergic immune responses but these are regulated with chronic allergen exposures Jonathan Coquet	212: Butyrophilin 3A1 interacts with the Vγ9Vδ2+ T cell receptor Tom Fulford	113: Colostrum conditions successful development of type 2 innate lymphoid cells independently of the microbiota Valerie Verhasselt	16: Context-dependent effects of IL-2 rewire immunity into distinct cellular circuits Carly Whyte	618: Inherited human PD-1 deficiency impairs B cell-intrinsic and -extrinsic antibody responses Stuart Tangye
14:40	62: Group A streptococcal M-protein specific antibodies trigger carditis but not neurobehavioral changes in the rat autoimmune valvulitis model Rukshan Ahamed Mohamed Rafeek	53: Overexpression of memory associated transcription factors promotes chimeric antigen receptor T cell stemness and anti-tumour efficacy Jack Chan	84: The microbial metabolite indole-3-propionic acid protects against mitochondrial dysfunction in the airway epithelium and allergic asthma inflammation Olaf Perdjik	147: RNA binding protein HuR controls CD4+ T cell cytokine production in allergen driven mouse airway inflammation and human asthmatic endotypes Ulus Atasoy	166: PD-1 regulates ILC3-driven intestinal immunity and homeostasis Cyril Seillet	28: A new role for ZEB2 as a lineage fidelity checkpoint in human Th1 CD4+ cells. Cheryl Brown	611: Longitudinal analysis and treatment response of pathogenic B cells in Sjogren's syndrome Joanne Reed
14:50	111: Mechanistic insights into the induction of robust, long-lived, highly protective CD8+ liver Trm cells by glycolipid-peptide vaccination Yu Cheng Chua	60: Investigating the role of Histone Acetyl Transferases in T cell mediated tumour-immune responses Lizzy Pijpers	116: T cell responses to virus infection in the intestinal mucosa Sarah Sandford	161: Chimeric Antigen Receptor T cells: A piece of the puzzle for brain cancer Misty Jenkins	203: Bone-targeted osteoporosis drugs may also boost immune responses to pulmonary infection by acting on tissue-resident macrophages in the lung Emma Fletcher	36: Pre-mitotic genome re-organisation bookends the B cell differentiation process Timothy Johanson	613: Endogenous bystander killing mechanisms enhance the activity of novel FAP CAR-T cells against glioblastoma Wenbo Yu
15:00	125: remodelling Stromal Structure By B-lymphocytes Limits T-cell Activation In Lymph Node Of Mycobacterium Tuberculosis-infected Mice Lina Daniel	72: Leveraging dendritic cell: T cell interactions for improved anti-tumour immunity Junyun Lai	164: Mucosal-associated invariant T cells activate dendritic cells to promote T follicular helper cell differentiation and humoral immunity Theresa Pankhurst	176: t Cell Cytoskeletal Forces Shape Synapse Topography For Targeted Lysis Via Membrane Curvature Bias Of Perforin Maté Biro	312: Neutrophils regulate regional microglial morphology in post-stroke neuroinflammation Brooke Wanrooy	43: BCG vaccination is associated with a long-term DNA methylation signature in circulating monocytes Boris Novakovic	605: Investigating key aspects of NETs through imaging flow cytometry and machine learning-assisted Raman microscopy: A critical role for adhesion in ANCA-induced NET formation in vasculitis Patrick Lelliott
15:10	295: Impact of obesity on memory T cells responses to infection Helena Horvatic	209: Adoptive transfer of TSTEM CAR-T cells mediates improved persistence and tumor control Joe Zhu	281: Maternal PIGR deficiency predisposes to severe viral bronchiolitis by affecting the infant microbiome and neonatal immune development Ridwan Rashid	263: mTOR inhibition promotes T cell exhaustion Daniel Utzschneider	419: An intraoperative hydrogel for local delivery of innate immune agonists prevents cancer recurrence in multiple mouse models Francois Xavier Rwandamuriye	372: Molecular pathways of macrophage infection and activation in COVID-19 Larisa Labzin	634: Blocking the common beta chain of the receptors for IL-3, IL-5 and GM-CSF improves airway function and inhibits tissue remodelling in response to chronic inhaled allergen exposure Damon Tumes
15:20	330: Lung imaging reveals stroke-induced impairment in pulmonary intravascular neutrophil function, a response exacerbated with aging Shu Wen Wen	252: Multi-omic analysis of cutaneous T cell lymphomas reveals broad changes in cellular immunity induced by mono- and combination anti-PD-1 immunotherapy David Glass	346: The immunomodulatory metabolite itaconate suppresses the severity of chronic obstructive pulmonary disease Ridhima Wadhwa	290: Glucocorticoid Induced Leucine Zipper: Gatekeeper for CD8 T cell activation and anti-viral responses Taylah Bennett	466: Discovering new mechanisms controlling cGAS-STING signalling Dominic De Nardo	387: Dynamic peptide:MHC-I structures in the eye of the beholder Matthew Witney	622: Regulation of the Dendritic cell receptor Clec9A to enable cross-presentation of dead cell antigen. Kirsteen Tullett
15:30	562: A transcriptomic analysis of adult sepsis in the Emergency Department: Early neutrophil dysregulation, novel gene downregulation and transcriptomic heterogeneity. Erkia Bosio	424: HER2-Chimeric Antigen Receptor T cells show preclinical efficacy in xenograft DMG models Alexander Davenport	487: Distinct eosinophil subsets are modulated by agonists of the commensal-metabolite and vitamin B3 receptor GPR109A during allergic-type inflammation Rossana Azzoni	404: Feature preserving manifold approximation and projection (fateMAP) enhances single cell RNA-seq analysis of CD8 T cell Yang Yang	541: Innate immune sensing of proteotoxic stress Sophia Davidson	440: Characterisation of the TLR4 signalosome structure Kate Stacey	619: Intestinal smooth muscle hypertrophy and hypermotility contribute to hookworm Nippostrongylus brasiliensis clearance Haozhe Wang
15:40	521: Spatial molecular profiling of lung pathology in Mycobacterium tuberculosis infected mice to define tissue microenvironments and regulators of TB granulomas Antje Blumenthal	502: The functional potential of MAIT cells in human colorectal cancer Jason Kelly	554: Dietary protein increases T-cell-independent sIgA production through changes in gut microbiota-derived extracellular vesicles Jian Tan	426: Gain-of-function STAT3 mutations drive pathology in autoimmunity and leukemia by dysregulating cytotoxic CD8 T cells. Etienne Farquhar	563: Apoptotic cells drive innate regulatory responses in anti-inflammatory MSC therapy Tracy Heng	444: Molecular determinants of neonatal immune maturation in the first week of human life. David M	616: Temporal kinetics of functional antibody responses following naturally acquired Plasmodium vivax malaria infections Rhea Longley
15:50	567: RP105 cytoplasmic domain is essential for TLR2/105-mediated cytokine production by mycobacteria-infected macrophages Leslie Dominguez Cadena	527: T cell responses are induced to a highly restricted set of potential cancer antigens Jessica Boulter	551: Epitopes encoded by intestinal bacteria lead to cross-reactive B and T cell responses altering responses to vaccination Todd Norton	523: MYB orchestrates T cell exhaustion and response to checkpoint inhibition Carlson Tsui	578: Innate immune signalling pathways and danger-associated molecular patterns in regulating skin inflammation Snehilata Kumari	591: Discovery and functional validation of an autoimmune disease linked super-enhancer that regulates SATB1 Katherine Brown	608: Glycaemic variability impairs T-cell immunity to influenza A virus Marcus Tong
Ground Floor							
16:00 Poster Session 3							
17:30 Lafferty Debate							
Location Plaza Ballroom							
19:30-23:30 Cocktail Reception							

50th Annual Scientific Meeting of the Australian and New Zealand Society for Immunology 2022
TUESDAY 29 November 2022 - FRIDAY 02 December 2022
Melbourne Convention and Exhibition Centre

As at 23 November 2022

Friday, 02 December 2022

AEDT	As at 23 November 2022 Friday, 02 December 2022		
8:30	Registration Desk Open Level 1		
Room	Plenary 1		
	Plenary Session 4		
	<i>Chairperson: Julia Marchingo, Miles Davenport, Laura Mackay</i>		
09:00	Plenary 9 - T cell fate determination Doreen Cantrell		
09:40	Plenary 10 - Towards a cure for HIV: the role of immunotherapies Sharon Lewin		
10:20	Plenary 7 - Dale Godfrey Dale Godfrey		
11:05	Morning Tea Level 1		
	Concurrent Symposia Session 4		
	Plenary 1	105&106	109&110
	Autoimmunity & Tolerance - Concurrent Symposia Session 4	COVID-19 - Concurrent Symposia Session 4	Structural & Molecular Immunology - Concurrent Symposia Session 4
	<i>Chairperson: Kirsten Fairfax, Emma Hamilton-Williams</i>	<i>Chairperson: Kerry Hilligan, Chansavath Phetsouphanh</i>	<i>Chairperson: Zhian Chen, Jerome Le Nours</i>
11:45	Type 3 immune responses in neuroinflammation Anne Brüstle	Vaccine development for Hepatitis C; two arms are better than one. Heidi Drummer	Tuning chimeric antigen receptors with de novo-designed transmembrane domains Melissa Call
12:10	The role of portal tracts and associated myeloid cells in intrahepatic immunity Patrick Bertolino	COVID-19: Immunovirological lessons from convalescence Anthony Kelleher	Comparable CD8+ T cells response in COVID-19 vaccinated and recovered individuals is increased by booster Stephanie Gras
12:35	Translating Immunology into New Therapies for Liver Disease Sumaira Hasnain	T cells in SARS-CoV-2 infection and vaccination Katherine Kedzierska	Tissue Resident Plasma Cells: Understanding Diversity in the Humoral Immune System Stephen Nutt
13:00	The JAK/STAT pathway in type 1 diabetes Thomas Kay	Immunological recall following breakthrough infection with SARS-CoV-2 Adam Wheatley	Programmed cell death-1 Ligand 2: Sidekick or Star? Michelle Wykes
13:30	Lunch Level 1		
	Plenary 1		
	Plenary Session 5		
	<i>Chairperson: Si Ming Man, Jaclyn Pearson, Gabrielle Belz</i>		
14:30	Plenary 12 - Pyroptosis: From antibacterial immunity to antitumor immunity Feng Shao		
15:10	Plenary 13 - The roles of caspase-8 and cFLIP in cell death and inflammation Kim Newton		
15:50	President's Lecture - Running to stand still: epigenetic restraint of virus-specific CD8+ T cell differentiation Stephen Turner		
16:30	Awards and Closing Ceremony		