

Monday 25 November

		Meeting Room C2.5-C2.6	Meeting Room C2.1	Meeting Room C2.2 & C2.3	Meeting Room C2.4
09.00am	SIG Workshsops	Clinical Immunology, Autoimmunity & Tolerance, Systems Immunology Workshop	Innate Immunity Immunometabolism Workshop	Tumour Immunology and Stromal Joint Workshop	Postgraduate Student Workshop

Morning Tea 10.30am

11.00am	Continuation of SIG Workshops	Clinical Immunology, Autoimmunity & Tolerance, Systems Immunology Workshop	Innate Immunity Immunometabolism Workshop	Tumour Immunology and Stromal Joint Workshop	Postgraduate Student Workshop
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Lunch 1:00pm

1.00pm	Continuation of SIG Workshops	Clinical Immunology, Autoimmunity & Tolerance, Systems Immunology Workshop	Innate Immunity Immunometabolism Workshop	Tumour Immunology and Stromal Joint Workshop	Postgraduate Student Workshop
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Student Function 6:00pm Pyrmont Bridge Hotel
96 Union Street, Pyrmont

Tuesday 26 November

Pymont Theatre	Plenary 1	8:00	8:30	9:10	9:50
	Session chairs: Scott Byrne, Joanne Reed & Diana Hansen	Opening and Welcome to Country	Luke O'Neill A break in mitochondrial endosymbiosis as a basis for inflammatory diseases	Stephanie Boisson-Dupuis Tuberculosis: a genetic disorder!	EDI Session: Alexandra Martiniuk

Morning Tea 10:30-11:10am

	Concurrent Symposia Session 1	11:10	11:50	12:15	12:40
Pymont Theatre	Symposium 1.1: Clinical Immunology Session chairs: Elissa Deenick & Etienne Masle-Farquhar	Bertrand Boisson The genetic basis of isolated congenital asplenia	Jing Jing Wang Cracking the molecular code of a dangerous autoantibody in adenoviral anti-PF4 disorders: the VITT story	Michaela Lucas Depletion and maintenance of tissue resident immunity in solid organ transplantation	Ying Wong Finding Type 1 diabetes (T1D) drivers through the lens of single-cell transcriptomics: Turning targets into new therapies
Meeting Room C2.2/2.3	Symposium 1.2: Innate immunity Session chairs: Larisa Lazbin & Scott Read	Seth Masters Genetics and Functional validation of autoinflammatory diseases	Kate Stacey TIR domain complexes in TLR signalling, and effects of disease-associated mutations	Thanh Kha Phan Voltage-gated T-type calcium channel blockers reduce apoptotic body-mediated SARS-CoV-2 cell-to-cell spread and subsequent cytokine storm	Scott Read Characterising the peritoneal macrophage response to infection: Is the disappearing act just for show, or does it suit a purpose?
Meeting Room C2.5/2.6	Symposium 1.3: Tolerance & T cells Session chairs: Joanna Groom & Erika Della Mina	Sarah Robertson T cell-mediated immune tolerance in the uterus – a critical determinant of reproductive success	Ian Parish Restraint of CD8+ T cell immunity by the tolerance checkpoint	Di Yu Systemic metabolism regulates T cell ferroptosis and functionality	Benjamin Gully Structure of a fully assembled $\gamma\delta$ T-cell antigen receptor

Lunch 1:00-2:30pm

Pymont Theatre	BD Science Communication Session	1:30	1:40	1:50	2:00	2:10	2:20
	Session Chairs: Inken Kelch & Fabio Luciani	Shivali Savita Chinni A Fairer Playing Field in the Race to Immunity	Kofi Stevens Copper That! Improving immunotherapy response rates in mesothelioma by targeting copper	Prerna Mudai Avengers! Assemble! – Guardians of the Immune Galaxy	Jesse Mulder Why Are Some Vaccines Better Than Others?	Charlotte Abell-King Bone-active drugs also protect against pneumonia by boosting the immune response in the lung	Jessica Boulter Vax To the Future: Are personalised vaccines the future of cancer treatment?

	Concurrent Workshop Session 1	2:30	2:45	3:00	3:15	3:30	3:45
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Pyrmont Theatre	Workshop 1.1: Autoimmunity Session Chairs: Judith Greer & Lara Glass	Margaret Jordan Transcriptional network analysis of peripheral blood leukocyte subsets in Multiple Sclerosis identifies a pathogenic role for a cytotoxicity-associated gene network in myeloid cells	Naresh Sachdeva Immune checkpoint ligands loaded in preproinsulin-specific regulatory T cell-derived exosomes: Developing a new immunomodulatory therapy for suppression of autoimmune responses in type-1 diabetes	Lachlan Gray Machine Learning identifies X chromosome genes predicting female Systemic Lupus Erythematosus	Taylah Bennett Patients in remission in SLE have abundant activity and number of cytotoxic lymphocytes	Judith Greer Effects of cladribine on vaccine recall responses in multiple sclerosis	Tim Peters A transcriptomic signature of self-reactivity in the germinal center
Meeting Room C2.2/2.3	Workshop 1.2: Inflammation and Innate Immunity Session chairs: Thanh Kha Phan & Severine Navarro	James Cremasco Lack of prenylation of small GTPases causes defective trafficking of cytolytic granules in NK cells in mice and humans with mevalonate kinase deficiency	Rhiannon Grant P-cresol sulfate acts on epithelial cells to reduce allergic airway inflammation	Dominic De Nardo Novel Insights into Non-IFN Immune Responses Triggered by STING Activation	Melissa Ng Deterministic reprogramming of neutrophils in tumours	Heather Medbury The inflammatory profile of human monocyte-derived macrophages is associated with blood lipid levels	Matt Johansen Dysregulation of the IFN/STAT1 axis drives severe COVID-19 outcomes
Meeting Room C2.5/2.6	Workshop 1.3: Vaccines Session chairs: Alexandra Spencer & Anneliese Ashhurst	Erica Stewart The safety, early lung transcriptional responses and efficacy of differently adjuvanted subunit tuberculosis vaccines after intrapulmonary delivery	Sophie Muller Heterogeneity of innate immunity in elderly adults revealed upon vaccine challenge	Claudio Counoupas Novel Role of Alveolar Macrophages in Protection Against M. tuberculosis Challenge Induced by a CD40L-Adjuvanted Vaccine	Daniel Fernandez-Ruiz Preferential boosting of liver-resident memory T cells of extended longevity and biased specificities for abundant sporozoite antigens drives efficacy of radiation-attenuated sporozoite malaria vaccination	Todd Norton A systems-based analysis of immune responses to a novel whole cell Streptococcus pneumoniae vaccine in phase I trials	Alexandra Spencer Defining the impact of platform and administration route on vaccine induced antibody responses
Meeting Room C2.1	Workshop 1.4: Tumour immunology Session chairs: Cameron Turtle & Felix Marsh Wakefield	Lisa Rausch Lymph-node-derived stem-like but not tumor-tissue-resident CD8+ T cells fuel anti-cancer immunity	Jesse Goyette Investigating chimeric antigen receptor signalling using super-resolution microscopy	Cheok Weng Chan Leveraging Crosstalk Between Dendritic Cell And T Cell For Improved Anti-Tumour Immunity	Jessica Schmeling Tumor- and T-cell-centric parameters shape the immunogenicity of cancer neoantigens and determine productive antitumor CD8+ T cell responses	Douglas Gaskarth Microbial metabolite butyrate stimulates an effector program in CD8+ T cells that boosts anti-tumour function	Luis Munoz-Erazo Automated assessment of immune microenvironment in Colorectal Cancer via characterisation of Tertiary Lymphoid Structures
Meeting Room C2.4	Workshop 1.5: Mucosal immunity Session chairs: Najla Nasr & Matthijs Bekkers	Jacqueline Tearle Unveiling a novel mast cell state in intestinal inflammation	Gesa Albers Airway macrophage glycolysis controls lung homeostasis and responses to aeroallergen	Wang Cao Decoding Gut Immunity: Unravelling the Role of Microfold (M) Cells	Rebecca Simpson Short-term dietary changes rapidly alter microbial community assemblages and reprogramme systemic immune homeostasis	Aidil Zaini Intestinal immune profiling of enteric nervous system and neuroimmune crosstalk	Adelynn Tang Division of labour-regulatory T cell subtypes in the gut and their functions

Afternoon Tea 4:00-4:30pm

Poster session 1: The Gallery, Level 2

4:00-5:30pm

5:30

6:15

Pymont Theatre

Session chairs: Tri
Phan & Gabrielle Belz

Foundation Lecture: Tony
Basten Evolution of Clinical
Immunology:
50th Anniversary of the
'Australian Model'

Honorary Life Member Awards
Lynn Corcoran
Ken Shortman
Tony Cunningham
Jon Sprent

and Rowley Medallist
David Tarlinton

Welcome Reception 7:00pm

The Gallery, Level 2

Wednesday 27 November

7:00

Meeting Room C2.4	Sponsored Breakfast Session Hosted by TissueGnostics	Next-Generation Tissue Image Cytometry – Understanding Cellular Interaction in Spatial Context	Exploring Immune Cell Interactions and Tissue Regeneration Through Cutting-Edge Imaging Technologies
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Pymont Theatre	Plenary 2	8:00	8:40	8:55	9:35
	Anne Puel Session chairs: Cindy Ma, Peter Doherty & Gabrielle Belz	Peter Doherty Medal presentation	Susan Christo Exploiting the diversity of tissue-resident memory T cells for local immunity	Carolien van de Sandt Dynamics of CD8 + T cell immunity to circulating and pandemic viruses	

Morning Tea 10:15-11:00am

	Concurrent Symposia Session 2	11:00	11:40	12:05	12:30
Meeting Room C2.5/2.6	Symposium 2.1: Inflammation Session chairs: Michael Hickey & Rachael Ireland	Silvana Gaudieri High-resolution analysis of the host anti-viral immune response	Franca Ronchese Investigating the key role of cytokines in DC-T cell communication and Th2 differentiation	Damon Tumes Allergic and non-allergic inflammatory pathways underlie human chronic Eosinophilic airway disease	Anneliese Ashhurst A novel human immunomodulatory peptide as a candidate therapeutic for inflammatory diseases
Meeting Room C2.2/2.3	Symposium 2.2: Immunotherapies and vaccines Session chairs: Aude Fahrer & Fiona Radcliff	Cameron Turtle Factors impacting outcomes of CAR-T cell immunotherapy for B cell malignancies	Jazmina Gonzalez Cruz Expanding our arsenal: incorporating spatial dimensions to improve personalized drug selection and discovery	Fernando Guimaraes Weaponizing natural killer cells for solid cancer immunotherapy	Fiona Radcliff Translation of a potential vaccine for staphylococcus aureus from protein to mRNA
Pymont Theatre	Symposium 2.3: Lymphocytes & Systems Immunology Session chairs: Mee Ling Munier & Seyhan Yazar	Phil Hodgkin Lymphocyte signal calculation underlying effective immunity	Jonathan Chee Immune checkpoint therapy responders display early clonal expansion of tumour infiltrating lymphocytes	Katherine Jackson The Critical Role of Germline References in AIRR-seq Analysis	Inken Kelch Mapping blood and lymphatic networks in murine lymph nodes using novel 3D imaging and computer modelling

Lunch 1:00-2:30pm

ASI Annual General Meeting 1:30-2:30pm

	Concurrent Workshop Session 2	2:30	2:45	3:00	3:15	3:30	3:45
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Meeting Room C2.5/2.6	Workshop 2.1: Human & Clinical Immunology Session chairs: Michaela Lucas & Emily Edwards	Alexandra Carey Hoppe Armed in defence: does alternating arms for sequential COVID-19 mRNA vaccine doses impact systemic and human lymph node immune responses?	Lakshanie Wickramasinghe The Human Uveal Tract Reveals New Fibroblast Specific Therapeutic Targets	Makoto Kodama Tertiary lymphoid structure alteration: a novel mechanism of TNF α inhibitor in Crohn's disease	Alice White Utilising high dimensional immune profiling to evaluate the immunological impact of sex hormones in a unique cohort of transgender young people	Benjamin Heng The metabolomic signature of Myalgic Encephalomyelitis/Chronic Fatigue Syndrome (ME/CFS) indicates dysregulated bioenergetics in immune and vascular functions in ME/CFS	Francis Middleton Integrating Serum and Immune Cell Profiling for Insight into Rheumatic Fever Pathogenesis
Meeting Room C2.1	Workshop 2.2: Infection & immunity Session chairs: Chan Phetsouphanhn & Mollie Boyd	Daniel Utzschneider B cells amplify type I interferon to promote effector T cell responses in chronic infection	Xiaohui Wang Interrogating human inflammatory epithelial-macrophage cell networks during influenza infection	Freja Warner Van Dijk Understanding inflammatory mononuclear phagocyte heterogeneity in human anogenital mucosa	Adrian Lo Responses to subdominant antigens can confer protection against Plasmodium parasites	Shirley Le $\gamma\delta$ T cell-derived IL-4 promotes cellular immunity to liver-stage malaria	Larisa Lazbin Epithelial cell-derived cytokines drive endothelial dysfunction and coagulation in COVID-19
Meeting Room C2.4	Workshop 2.3: Best of ICB and CTI Session chairs: Joanne Reed & Gabrielle Belz	Sophia Noble Modulation of intestinal epithelial permeability by chronic small intestinal helminth infections	Susanne Heinzel Memory vs naive T cells: same same but different	Alanna Spiteri NK cell profiling in West Nile virus encephalitis reveals potential metabolic basis for functional inhibition	Sarah Baird A unique cytotoxic CD4+ T cell-signature defines critical COVID-19	Jack Polmear Targeting BMI-1 to deplete antibody-secreting cells in autoimmunity	Anne La Flamme Enhanced and complementary benefits of a nalfurafine and fingolimod combination to treat immune-driven demyelination
Meeting Room C2.2/2.3	Workshop 2.4: B cell immunobiology Session chairs: Anselm Enders & Christopher Jara	Henry Sutton The B cell Benefits of Long-lasting Germinal Centers	Kimberley Parkin Evaluation of BAFF signalling after demonstrating that B cells exhibit a globally decreased expression of BAFF-receptor in early Multiple Sclerosis	Hui Xu Differential requirement for Polycomb repressive complex 2 (PRC2) in coordination of germinal centres	Charne Rossouw Impaired B and T cell immunogenicity following parenteral vaccination in a mouse model of environmental enteric dysfunction	Anouk Becker B cells capture mRNA from Dendritic Cells via trogocytosis	Qian Shen Interdependence between stemness and regulatory function in B-1 cells and molecular basis
Pyrmont Theatre	Workshop 2.5: Helper and Regulatory T cells Session chairs: Laura Cook & Antoine Guerin	Yuchen Li Investigating resident memory CD4+ T cells in human anogenital tissues and determining their susceptibility to HIV infection	Rebecca Jaeger Selective alteration to CD4 T cell differentiation by heterozygous IRF4L116R protects against neuroinflammation	Michael Hickey Regulatory T cell control of vascular adhesion molecule expression in skin under inflammatory and homeostatic conditions	Sarah Sasson CD4+ T-cell Mucosal Lymphopenia in Human Papillomavirus (HPV)-driven anal dysplasia in the setting of Human Immunodeficiency Virus (HIV)	Joanna Groom Divergent cytokine and transcriptional signatures control functional T follicular helper cell heterogeneity	Hannah Kelly Effector CD4 T cells specific for the Plasmodium falciparum circumsporozoite protein synergise with CD8 T cells to effectively kill liver stage parasites in vivo
Afternoon Tea & Drinks 4:00-4:30pm							
Poster session 2: The Gallery, Level 2 4:00-5:30pm							
5:30							
Pyrmont Theatre	Session chair: Gabrielle Belz	Burnet Oration: Carola Vinuesa					

Thursday 28 November

Pymont Theatre	Plenary 3	8:00	8:40	9:20		
	Session chairs: Deborah Burnett & Kim Good-Jacobson	Julie Zikherman Balancing tolerance and immunity at the BCR	Tri Phan B cell-macrophage interactions in immunity, autoimmunity and cancer	Montserrat Anguera Understanding the Female Bias of Autoimmune Disease: Mechanisms of X-Chromosome Inactivation in Adaptive Immune System		
Morning Tea 10:00-10:30am						
Pymont Theatre	Pfizer* New Investigator Session	10:30	10:45	11:00	11:15	11:30
	Session chairs: Susanne Heinzel & Alexandra Dvorscek	Kah Min Yap Identifying Optimal Tumour-specific Promoters for CRISPR/Cas9 Engineering of Armoured CAR T Cells with Enhanced Safety and Efficacy	Abigail Grootveld Cellular Dynamics of Tingible Body Macrophages Locally Activated by Apoptotic Cells in the Germinal Centre	Anne Huber TAK1 protects tumour cells from combined CTL-derived TNF and IFN- γ	Calvin Xu Selective Regulation of IFN-gamma and IL-4 Co-producing Unconventional T Cells by Purinergic Signalling	Xin Gao B cells targeting parasites capture spatially linked antigens to secure T cell help
	Concurrent Symposia Session 3	11:45	12:25	12:50		
Pymont Theatre	Symposium 3.1 Mucosal immunology Session chairs: Bernadette Saunders & Rossana Azzoni	William Agace Mapping CD4 + T cell diversity within immune niches of the human intestine in health and Crohn's disease	Kirstie Bertram Dendritic Cells in human intestine are dysregulated in Crohn's Disease	Kylie James Colonic immune cell and microbial niches defined at steady-state and in inflammatory bowel diseases		
Meeting Room C2.2/2.3	Symposium 3.2: B cells in immunity & autoimmunity Session chairs: David Tarlinton & Adrian Lee	Kim Good-Jacobson B-cell memory and antibody responses to severe and chronic viral infections	Ian Cockburn Affinity, Infection, and Epigenetic Regulation: Unravelling the Complex Pathways of Plasma Cell Formation in Malaria	Julia Ellyard Rare SH2B3 coding variants in lupus patients impair B cell tolerance and predispose to autoimmunity		
Meeting Room C2.5/2.6	Symposium 3.3: Infection & Immunity Session chairs: Carl Feng & Naomi Truong	Chansavath Phetsouphanh Unraveling Long COVID: Immune Profiling and Mechanistic Insights into drivers of Post-Acute Sequelae of SARS-CoV-2 Infection	Emma Grant CD8+ T cell epitope conservation in emerging H5N1 viruses suggests global protection	Laura Cook Reviving Resilience: immune mechanisms that increase risk of secondary infections following critical illness		
Lunch 1:10-2:30pm						
	Concurrent Workshop Session 3	2:30	2:45	3:00	3:15	3:30
						3:45

Friday 29 November

Pymont Theatre	Plenary 4	9:00	9:40
	Session chairs: Andrew Harman & Kirstie Bertram	Yonatan Ganor Novel mucosal anti- viral neuroimmune approaches	Laura Mackay Deconvoluting tissue- resident memory T cells in tumours

Morning Tea 10:20-11:00am

Pymont Theatre	Plenary 5	11:00	11:40	12:20
	Session chairs: Antje Blumenthal & Jemma Mayall	Claudia Kemper The complosome engages prostanoid metabolism to orchestrate Th1 induction and contraction	Michael Gantier Unveiling the protective role of ribosomal RNA against auto- immunity	Kenji Kabashima Identification of CXCR6+CD4+ Tissue- Resident Memory T Cells in Chronic Allergic Skin Inflammation

Lunch 1:00-2:00pm

		2:00	2:40
Pymont Theatre	Plenary 6 Session chair: Jose Villadangos	Presidents Address: Gabrielle Belz	Awards and Closing