

# PROGRAM

## PROGRAM AT A GLANCE

<b>MONDAY 27 NOVEMBER 2017</b>	
17:00 – 17:20	<b>Opening Ceremony</b> (Plaza Auditorium)
17:20 – 18:40	<b>Foundation &amp; Keynote Lectures</b> (Plaza Auditorium)
18:40 – 20:00	Welcome Reception (Plaza Auditorium Foyer)

<b>TUESDAY 28 NOVEMBER 2017</b>			
08:30 – 10:30	<b>Plenary I: Adaptive Immunity</b> (Plaza Auditorium)		
10:30 – 11:00	Morning Tea (Plaza Auditorium Foyer)		
11:00 – 12:40	<b>Symposium I: Innate immunity and sculpting of adaptive immunity</b> (Meeting Room P6, P7 & P8)	<b>Symposium II: Lymphocyte Differentiation, Activation and Memory</b> (Plaza Auditorium)	
12:40 – 14:10	Lunch (Plaza Auditorium Foyer)	<b>ICB Editorial Board Meeting</b> (Meeting Room P9)	
13:00 – 14:00	<b>WIT Workshop: Life skills for a sustainable research career</b> (Plaza Auditorium)	<b>Miltenyi Biotec Lunch Symposium</b> (Meeting Room P7 & P8)	
14:10 – 16:00	<b>Workshop 1: Lymphocyte biology 1</b> (Plaza Auditorium)	<b>Workshop 2: Infection and Immunity 1</b> (Meeting Room P7 & P8)	<b>Workshop 3: Tumour Immunology</b> (Meeting Room P9)
			<b>Workshop 4: Mucosal Immunity</b> (Meeting Room P6)
16:00 – 17:30	<b>Poster Session One &amp; Burnet Oration Cocktail Function</b> (Plaza Auditorium Foyer)		
17:30 – 18:30	<b>Burnet Oration</b> (Plaza Auditorium)		

<b>WEDNESDAY 29 NOVEMBER 2017</b>			
08.30 – 10:30	<b>Plenary II: Infection and Inflammation</b> (Plaza Auditorium)		
10.30 – 11:00	Morning Tea (Plaza Auditorium Foyer)		
11.00 – 12:40	<b>Symposium III: Mucosal Immunology</b> (Plaza Auditorium)	<b>Symposium IV: Cytokines, Chemokines and Immune Signaling</b> (Meeting Room P6, P7 & P8)	
12.40 – 14:10	Lunch (Plaza Auditorium Foyer)	<b>ASI AGM</b> (Plaza Auditorium)	
14.10 – 16:00	<b>Workshop 5: Lymphocyte biology 2</b> (Plaza Auditorium)	<b>Workshop 6: Inflammatory Diseases and Mechanisms</b> (Meeting Room P9)	<b>Workshop 7: Infection and Immunity 2</b> (Meeting Room P7 & P8)
			<b>Workshop 8: Vaccines and Immunotherapies</b> (Meeting Room P6)
16:00 – 17:30	<b>Poster Session 2</b> (Plaza Auditorium Foyer)		
16:00 – 17:30	<b>Education SIG workshop</b> (Meeting Room P9)		
17:30 – 19:00	<b>New Investigator Award Session</b> (Plaza Auditorium)		
19:30 – late	Student Function (The Fox Hotel, South Brisbane)		

<b>THURSDAY 30 NOVEMBER 2017</b>			
08.30 – 10:30	<b>Plenary III: Cancer Immunology</b> (Plaza Auditorium)		
10.30 – 11:00	Morning Tea (Plaza Auditorium Foyer)		
11.00 – 12:40	<b>Symposium V: Autoimmune and Inflammatory Diseases</b> (Meeting Room P6, P7 & P8)	<b>Symposium VI: Infectious Diseases</b> (Plaza Auditorium)	
12.40 – 14:10	Lunch (Plaza Auditorium Foyer)		
13:00 – 14:00	<b>Tools for Immuno-Oncology Research</b> (Meeting Room P7 & P8)		
13:00 – 14:00	<b>BD Science Communication Award</b> (Plaza Auditorium)		
14.10 – 16:00	<b>Workshop 9: DC and Immune Regulation</b> (Meeting Room P9)	<b>Workshop 10: Autoimmunity</b> (Meeting Room P7 & P8)	<b>Workshop 11: Innate Immunity</b> (Meeting Room P6)
			<b>Workshop 12: The best of ICB and CTI</b> (Plaza Auditorium)
16:00 – 17:30	<b>Poster Session 3</b> (Plaza Auditorium Foyer)		
17:30 – 18:30	<b>The Lafferty Debate</b> (Plaza Auditorium)		
19:30 – 00:30	Conference Dinner (Rydges South Bank)		

<b>FRIDAY 1 DECEMBER 2017</b>	
09.00 – 10:00	<b>Plenary IV: Tissue-specific Immunology</b> (Plaza Auditorium)
10.00 – 12:00	<b>Plenary V: Clinical and Translational Immunology</b> (Plaza Auditorium) including Morning Tea at 10:30 – 11:00 (Plaza Auditorium Foyer)
12:00 – 12:45	<b>President's Lecture</b> (Plaza Auditorium)
12:45 – 13:45	<b>Closing Ceremony</b> (Plaza Auditorium)

## MONDAY 27 NOVEMBER 2017

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### OPENING CEREMONY

5:00PM - 5:20PM

Plaza Auditorium

Chairs: Antje Blumenthal & Kristen Radford

### Welcome to Country – Aunty/Gaja Kerry Charlton

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### FOUNDATION LECTURE

5:20PM - 6:00PM

Plaza Auditorium

Chairs: Ian Frazer & Susanne Heinzl

5:20 PM

**Graham Mitchell**

Where a good start in Immunology (and good mentors), can lead you

*abs# 1*

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### KEYNOTE LECTURE

6:00PM - 6:40PM

Plaza Auditorium

Chair: Ian Frazer

6:00 PM

**Federica Sallusto**

Dissecting the heterogeneity of the human T cell response

*abs# 2*

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### WELCOME RECEPTION

6:40PM - 8:00PM

Plaza Auditorium Foyer

## TUESDAY 28 NOVEMBER 2017

### PLENARY I: ADAPTIVE IMMUNITY

8:30AM - 10:30AM

Chairs: Phil Hodgkin & Ranjeny Thomas

Plaza Auditorium



- 8:30 AM **Susan Kaech**  
Anti-tumor T cells- you are what you eat *abs# 3*
- 9:00 AM **Fabienne Mackay**  
TAC1 signaling: A novel immune checkpoint in Chronic Lymphocytic Leukaemia *abs# 4*
- 9:30 AM **Michael Dustin**  
The immunological synapse and the structure of T cell communication *abs# 5*
- 10:00 AM **Laura Mackay**  
Deciphering resident memory T cell ontogeny *abs# 6*

### MORNING TEA

10:30AM - 11:00AM

Plaza Auditorium Foyer

### SYMPOSIUM I: INNATE IMMUNITY AND SCULPTING OF ADAPTIVE IMMUNITY

11:00AM - 12:40PM

Chairs: Irina Caminschi & Andrew Lew

P6, P7 & P8

- 11:00 AM **Nicholas Huntington**  
CRISPR-Cas9 screens for novel immune checkpoint in human NK cells *abs# 7*
- 11:25 AM **Franca Ronchese**  
Dendritic cell plasticity and CD4+ helper T cell responses *abs# 8*
- 11:50 AM **Tatyana Chtanova**  
Photoconversion and in vivo imaging shed light on immune cell migration and function in inflammation and cancer *abs# 9*
- 12:15 PM **Joseph Sun**  
Epigenetic control of innate and adaptive immune memory *abs# 10*

### SYMPOSIUM II: LYMPHOCYTE DIFFERENTIATION, ACTIVATION AND MEMORY

11:00AM - 12:40PM

Chairs: Katherine Kedzierska & Scott Mueller

Plaza Auditorium



- 11:00 AM **Jonathan Sprent**  
Strong immunogenicity of membrane nanovesicles from dendritic cells *abs# 11*
- 11:25 AM **Cindy Ma**  
Using primary immunodeficiencies to investigate human CD4+ t cell development, differentiation and function *abs# 12*
- 11:50 AM **Nicole La Gruta**  
A direct analysis of viral epitope abundance and its impact on an endogenous antiviral CTL immunodominance hierarchy *abs# 13*
- 12:15 PM **Misty Jenkins**  
Chimeric antigen receptor T cells: priming, cytotoxicity and the immune synapse *abs# 14*

## TUESDAY 28 NOVEMBER 2017 (CONTINUED)

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### LUNCH

12:40PM - 2:10PM

Plaza Auditorium Foyer

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### WIT WORKSHOP: LIFE SKILLS FOR A SUSTAINABLE RESEARCH CAREER

1:00PM - 2:00PM

Plaza Auditorium

Facilitator: **Alison Rice**, *CoPresident, Women in Technology*



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Panel: **Katarina Carroll APM**, *Commissioner, Queensland Fire & Emergency Services* – Leadership  
**Jen Ramsey**, *jenramsay.com* – Authentic Self-Promotion  
**Tanya Smith**, *Griffith University* – Resilience

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### MILTENYI BIOTEC LUNCH SYMPOSIUM: CLINICAL TRANSLATION OF CELL THERAPIES: HOW TO BRIDGE THE GAP

1:00PM - 2:00PM

P7 & P8

Chair: **Rajiv Khanna**, *QIMR Berghofer Medical Research Institute, Brisbane*



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Agenda: **Tessa Gargett**, *Centre for Cancer Biology, University of South Australia, Adelaide*  
Manufacturing CAR T cells for treatment of solid tumours

**Siok Tey**, *QIMR Berghofer Medical Research Institute, Brisbane*  
Regulatory T cells for clinical application – meeting the challenges

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### WORKSHOP 1: LYMPHOCYTE BIOLOGY 1

2:10PM - 4:00PM

Plaza Auditorium

Chairs: Elissa Deenick & Michael Bramhall

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|---------|--|----------------|
| 2:10 PM | <b>Timothy Johanson</b><br>The transcription factor Pax5 organises the B cell genome in three-dimensions   | <i>abs# 15</i> |
| 2:25 PM | <b>Etienne Masle-Farquhar</b><br>Histone and DNA methylation changes in KMT2D mutant mice result in an expanded LSK progenitor population and a B cell-intrinsic expansion of the germinal centre reaction | <i>abs# 16</i> |
| 2:40 PM | <b>Kim Good-Jacobson</b><br>The role of histone-modifying complexes in regulating B cell responses to infection  | <i>abs# 17</i> |
| 2:55 PM | <b>Erica Wynne-Jones</b><br>Distinct mechanisms govern tissue-resident memory T cell development in different organs   | <i>abs# 18</i> |
| 3:10 PM | <b>Ian Parish</b><br>The replication stress protein ETAA1 is a selective regulator of effector T cell expansion  | <i>abs# 19</i> |
| 3:25 PM | <b>Brendan Russ</b><br>Pre-configured chromatin loops and enhancer poising underscores effector CD8+ T cell differentiation  | <i>abs# 20</i> |
| 3:40 PM | <b>Annabell Bachem</b><br>The role of microbiota in the formation of circulating memory CD8+ T cells   | <i>abs# 21</i> |

## TUESDAY 28 NOVEMBER 2017 (CONTINUED)

### WORKSHOP 2: INFECTION AND IMMUNITY 1

2:10PM - 4:00PM

P7 & P8

Chairs: Andrew Currie & Jasmine Li

- 2:10 PM **Jessica Loughland**  
A primary controlled human malaria infection uniquely activates CD16+ blood dendritic cells *abs# 22*
- 2:25 PM **Thomas Watkins**  
Human Plasmodium falciparum infection induces a predictable and persistent distortion in transcriptomic landscapes across T cell subsets *abs# 23*
- 2:40 PM **Helen Farrell**  
Murine cytomegalovirus spreads by dendritic cell recirculation *abs# 24*
- 2:55 PM **Sapna Devi**  
Role of Adrenoreceptor Signaling on Lymphocyte Migration *abs# 25*
- 3:10 PM **Ali Zaid**  
Specific inhibition of NLRP3 in chikungunya disease reveals a role for inflammasome in alphavirus-induced inflammation *abs# 26*
- 3:25 PM **Claudia Stocks**  
Differential utilisation of zinc by macrophages as an antimicrobial weapon against intracellular bacteria *abs# 27*
- 3:40 PM **Frederic Sierro**  
Immune surveillance by a contiguous network of monocyte-derived macrophages residing in the hepatic capsule *abs# 28*

### WORKSHOP 3: TUMOUR IMMUNOLOGY

2:10PM - 4:00PM

P9

Chairs: Michele Teng & Connie Jackaman

- 2:10 PM **Stephen Mattarollo**  
Impact of elevated sympathetic neural signaling on anti-cancer immunity and immunotherapy *abs# 29*
- 2:25 PM **Michele Teng**  
Efficacy of neoadjuvant immunotherapy is mediated through the selective expansion of tumour-specific CD8+ T cells with a memory precursor phenotype *abs# 30*
- 2:40 PM **Barbara Rolfe**  
The complement C3a receptor: a novel therapeutic target for melanoma? *abs# 31*
- 2:55 PM **Beatriz Garcillan**  
TAC1 deletion ameliorates immune dysfunction in Chronic Lymphocytic Leukaemia *abs# 32*
- 3:10 PM **Sherly Mardiana**  
A multifunctional role for adjuvant anti-4-1BB therapy in augmenting anti-tumour responses by chimeric antigen receptor T cells *abs# 33*
- 3:25 PM **Amanda Oliver**  
Targeting the tumour microenvironment to enhance immunotherapy against cancer *abs# 34*
- 3:40 PM **Marian Burr**  
CMTM6 maintains the expression of PD-L1 and regulates anti-tumour immunity *abs# 35*

## TUESDAY 28 NOVEMBER 2017 (CONTINUED)

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### WORKSHOP 4: MUCOSAL IMMUNITY

2:10PM - 4:00PM

P6

Chairs: Simon Phipps & Nicholas West

- 2:10 PM **Dale Godfrey**  
Development and diversity of mr1-restricted t cells *abs# 36*
- 2:25 PM **Criselle Dsouza**  
MAIT cells: friend or foe? Role in H. pylori induced gastritis *abs# 37*
- 2:40 PM **Ran Wang**  
Enteric microbiota shape the inflammatory response in mice with a Muc2 misfolding mutation *abs# 38*
- 2:55 PM **Md Ashik Ullah**  
HMGB1 amplifies ILC2 cytokine production and mediates ILC2-induced airway smooth muscle remodelling during severe viral bronchiolitis and subsequent asthma *abs# 39*
- 3:10 PM **Valerie Verhasselt**  
A role for early oral exposure to house dust mite in food allergy susceptibility *abs# 40*
- 3:25 PM **Charles Armitage**  
Pathogenic NKT cells attenuate clearance and exacerbate disease in urogenital chlamydial infections *abs# 41*
- 3:40 PM **Axel Kallies**  
Molecular control of tissue-resident regulatory T cell differentiation *abs# 42*
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### POSTER SESSION ONE & BURNET ORATION COCKTAIL FUNCTION

4:00PM - 5:30PM

Plaza Auditorium Foyer

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### BURNET ORATION

5:30PM - 6:30PM

Plaza Auditorium

Chair: Susanne Heinzl

- 5:30 PM **Lynn Corcoran**  
The immunological journey of an outsider *abs# 43*

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## WEDNESDAY 29 NOVEMBER 2017

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### PLENARY II: INFECTION AND INFLAMMATION

8:30AM - 10:30AM

Plaza Auditorium

Chairs: Denise Doolan & David Tschärke

- 8:30 AM **Judith Allen**  
Learning from helminths: macrophages in type 2 immunity *abs# 44*
- 9:00 AM **Mariapia Degli-Esposti**  
Anti-viral immunity: NK cells, T cells and more *abs# 45*
- 9:30 AM **Paul Hertzog**  
Evolution of a novel mucosal protectant *abs# 46*
- 10:00 AM **Shane Crotty**  
T follicular helper cells (Tfh) and GC B cell responses in the context of vaccines and infections *abs# 47*
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### MORNING TEA

10:30AM - 11:00AM

Plaza Auditorium Foyer

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### SYMPOSIUM III: MUCOSAL IMMUNOLOGY

11:00AM - 12:40PM

Plaza Auditorium

Chairs: Sammy Bedoui & Lynette Beattie

- 11:00 AM **Richard Blumberg**  
AhR regulation of CD1d function in the intestinal epithelium *abs# 48*
- 11:25 AM **Alex Loukas**  
Hookworms and their secreted proteins as a novel anti-inflammatory modality *abs# 49*
- 11:50 AM **Claudia Nold-Petry**  
Type 2 immunity is a hallmark of neonatal cardiopulmonary disease *abs# 50*
- 12:15 PM **Daniel Pellicci**  
Characterisation and Development of unconventional T cells *abs# 51*
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### SYMPOSIUM IV: CYTOKINES, CHEMOKINES AND IMMUNE SIGNALLING

11:00AM - 12:40PM

P6, P7 & P8

Chairs: Iain Comerford & Anne Bruestle

- 11:00 AM **Shaun McColl**  
CCR2 and T lymphocyte biology: An old dog teaching us new tricks *abs# 52*
- 11:25 AM **Allison Pettit**  
Bone and marrow resident macrophages regulate both hematopoietic and skeletal health and regeneration *abs# 53*
- 11:50 AM **Si Ming Man**  
Regulation of inflammasome signalling in infection *abs# 54*
- 12:15 PM **Sudha Rao**  
Interplay between the epigenome & nuclear Signaling Kinases: Novel liquid biopsy biomarkers for metastatic cancers *abs# 55*
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### LUNCH

12:40PM - 2:10PM

Plaza Auditorium Foyer

## WEDNESDAY 29 NOVEMBER 2017 (CONTINUED)

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### ASI AGM

1:00PM - 2:00PM

Plaza Auditorium

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### WORKSHOP 5: LYMPHOCYTE BIOLOGY 2

2:10PM - 4:00PM

Plaza Auditorium

Chairs: Kim Good-Jacobson & Lauren Holz

- 2:10 PM **Simon Preston**  
Molecular control of FOXP3<sup>+</sup> regulatory T cell survival and death during inflammation *abs# 56*
- 2:25 PM **Haiyin Liu**  
MARCH8 controls thymic epithelial cell MHC II and CD4<sup>+</sup> T cell development *abs# 57*
- 2:40 PM **Katharina Hochheiser**  
Protein tyrosine phosphatase non-receptor type 2 regulates development and function of skin-resident memory CD8 T cells *abs# 58*
- 2:55 PM **Julia Prier**  
Identification of a committed precursor to the tissue-resident memory T cell fate *abs# 59*
- 3:10 PM **Brigette Boast**  
Murine ARPC1B deficiency as a novel model for human hyper IgE syndrome *abs# 60*
- 3:25 PM **Iain Comerford**  
Regulation of activated B cell differentiation by atypical chemokine receptor 4 *abs# 61*
- 3:40 PM **Stuart Tangye**  
Hyperactivation of PI3 kinase causes defects in human B-cell development and differentiation *abs# 62*
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### WORKSHOP 6: INFLAMMATORY DISEASES AND MECHANISMS

2:10PM - 4:00PM

P9

Chairs: Claudine Bonder & Ming Yang

- 2:10 PM **Marcel Nold**  
Characterising the maturation of T cell polarisation in preterm and term infants and in neonatal chronic lung disease *abs# 63*
- 2:25 PM **Sahar Keshvari**  
Development of an Interleukin-22 based therapy in type 2 diabetes *abs# 64*
- 2:40 PM **James Read**  
Phenotypic and transcriptomic findings in baseline immune cell subsets associated with IgE-mediated allergy using a childhood twin cohort *abs# 65*
- 2:55 PM **Patrick Hughes**  
Acute colitis chronically alters epithelial barrier and immune tolerance responses to subsequent colitis re-activation independently of shifts in microbiota composition *abs# 66*
- 3:10 PM **Katie Lineburg**  
Hematopoietic stem cells and their progenitors critically require autophagy to promote early engraftment following allogeneic stem cell transplantation *abs# 67*
- 3:25 PM **Andrew Wilkinson**  
IL-6 *classical*-signalling drives GVHD by promoting pathogenic Th17 and Th22 differentiation *abs# 68*
- 3:40 PM **Michael Hickey**  
Effector CD4<sup>+</sup> T cells promote glomerular inflammation via recognition of intravascular antigen presented by patrolling monocytes *abs# 69*



## WEDNESDAY 29 NOVEMBER 2017 (CONTINUED)

### WORKSHOP 7: INFECTION AND IMMUNITY 2

2:10PM - 4:00PM

P7 & P8

Chairs: Maria Liaskos & Malcolm Starkey

- 2:10 PM **Thomas Ashhurst**  
High-dimensional cytometry for interrogating immunity and disease *abs# 70*
- 2:25 PM **Fiona Radcliff**  
A potential role for superantigen producing bacteria in tonsillar hyperplasia *abs# 71*
- 2:40 PM **Paula Niewold**  
Resolving cerebral malaria by inhibiting accumulation of pathogenic monocytes in the brain microvasculature *abs# 72*
- 2:55 PM **Bridie Clemens**  
Mapping protective influenza-specific CD8<sup>+</sup> T cell targets for HLA-A\*24:02 in Indigenous populations *abs# 73*
- 3:10 PM **Emily Edwards**  
Alterations in CD8<sup>+</sup> T cell phenotype and function in the peripheral blood of *PIK3CD* gain-of-function patients *abs# 74*
- 3:25 PM **Newton Peres**  
Local CD4<sup>+</sup> T cell immunity in the liver protects from *Salmonella* infections *abs# 75*
- 3:40 PM **Diana Hansen**  
Immunological processes underlying the slow acquisition of immunity to blood-stage malaria *abs# 76*

### WORKSHOP 8: VACCINES AND IMMUNOTHERAPIES

2:10PM - 4:00PM

P6

Chairs: Sarah Hook & Christian Bryant

- 2:10 PM **Danielle Stanisc**  
First evaluation in humans of a chemically attenuated *p. Falciparum* whole parasite blood-stage vaccine *abs# 77*
- 2:25 PM **Simon Barry**  
Melt electrospun 3 D lattices for the clinical scale expansion of immunomodulatory cells including Treg and a novel CAR-T cell targeting P<sub>2</sub>X<sub>7</sub> *abs# 78*
- 2:40 PM **John Hayball**  
A dual Chikungunya and Zika vaccine derived from a new replication-incompetent poxvirus vaccine system provides mice and their offspring with complete protection from infectious challenge *abs# 79*
- 2:55 PM **Aakanksha Dixit**  
Protection against relapses of disease in a mouse model of multiple sclerosis by a parasite-derived 68-mer peptide *abs# 80*
- 3:10 PM **Manuela Flórido**  
Protection against tuberculosis induced by pulmonary delivered recombinant Influenza A vaccine is associated with the development of lung resident CD4<sup>+</sup> memory T cells *abs# 81*
- 3:25 PM **Kelden Richardson**  
Mechanisms behind elotuzumab and lenalidomide dual therapy in multiple myeloma *abs# 82*
- 3:40 PM **Daniel Fernandez-Ruiz**  
Liver-resident memory T cells can be harnessed for unprecedented protection against malaria *abs# 83*

## WEDNESDAY 29 NOVEMBER 2017 (CONTINUED)

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### POSTER SESSION TWO

4:00PM - 5:30PM

Plaza Auditorium Foyer

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### EDUCATION SIG WORKSHOP

4:00PM - 5:30PM

P9

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### NEW INVESTIGATOR AWARD SESSION

5:30PM - 7:00PM

Plaza Auditorium

Chairs: Alan Baxter & Diana Hansen

- 5:30 PM **Simone Minnie**  
Stem cell transplantation establishes T cell-dependent myeloma immune-equilibrium *abs# 84*
- 5:45 PM **Tan Nguyen**  
Sidt2 transports extracellular dsRNA into the cytoplasm for innate immune recognition *abs# 85*
- 6:00 PM **Carly Gregor**  
Atypical chemokine receptor 4 restrains anti-tumour CD8<sup>+</sup> T cell responses in breast cancer *abs# 86*
- 6:15 PM **Rhiannon Werder**  
PGD2-mediated DP1 and DP2 receptor activation regulate the severity of viral bronchiolitis by controlling the production of IFN-lambda *abs# 87*
- 6:30 PM **Hui-Fern Koay**  
Development of MAIT cells *abs# 88*
- 6:45 PM **Marios Koutsakos**  
The first identification of immunodominant CD8<sup>+</sup> T cell cross-reactivity across influenza types A, B and C *abs# 89*

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### STUDENT FUNCTION

7:30PM - 11:00PM

The Fox Hotel

71-73 Melbourne St, South Brisbane QLD 4101

Supported by  THE UNIVERSITY OF QUEENSLAND AUSTRALIA |  **IMB** Institute for Molecular Bioscience &  **BioLegend**<sup>®</sup> Enabling Legendary Discovery<sup>™</sup>

## THURSDAY 30 NOVEMBER 2017

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### PLENARY III: CANCER IMMUNOLOGY

8:30AM - 10:30AM

Plaza Auditorium

Chairs: Delia Nelson & Thomas Gebhardt

- 8:30 AM **Yuting Ma**  
The renaissance of antineoplastic immunity from stress response *abs# 90*
- 9:00 AM **Mark Smyth**  
IL-18 critically drives multiple myeloma progression by generating an immunosuppressive microenvironment *abs# 91*
- 9:30 AM **Maria Rescigno**  
Microbiota, immune system and cancer development *abs# 92*
- 10:00 AM **Rajiv Khanna**  
Cellular Immune Therapies: Driving success with lymphoid malignancies to infectious complications, solid cancers and autoimmune diseases *abs# 93*
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### MORNING TEA

10:30AM - 11:00AM

Plaza Auditorium Foyer

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### SYMPOSIUM V: AUTOIMMUNE AND INFLAMMATORY DISEASES

11:00AM - 12:40PM

P6, P7 & P8

Chairs: Paul Foster & Michaela Lucas

- 11:00 AM **Helen Thomas**  
Preclinical characterisation of JAK1/JAK2 inhibitors for treatment of type 1 diabetes *abs# 94*
- 11:25 AM **Janet Davies**  
Developments and needs in allergen specific immunotherapy: targeting grass pollen allergy to mitigate the risk of thunderstorm asthma *abs# 95*
- 11:50 AM **Jose Villadangos**  
Induction of paralysed dendritic cells with poor immunogenic function following Systemic Inflammatory Response Syndrome (SIRS) *abs# 96*
- 12:15 PM **Emma Hamilton-Williams**  
Identification of a type 1 diabetes associated core microbiome driven by disease associated risk alleles *abs# 97*
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### SYMPOSIUM VI: INFECTIOUS DISEASES

11:00AM - 12:40PM

Plaza Auditorium

Chairs: Joanna Kirman & Warwick Britton

- 11:00 AM **Michelle Wykes**  
Programmed Death-1 Ligand 2 Regulates the PD-L1 to PD-1 Axis to Establishing T cell Immunity *abs# 98*
- 11:25 AM **Greg Woods**  
A double dose of a deadly devil cancer *abs# 99*
- 11:50 AM **Christian Engwerda**  
Discovering novel immune checkpoint molecules that can be targeted to treat infectious diseases *abs# 100*
- 12:15 PM **Andrew Currie**  
Towards a systems understanding of neonatal sepsis *abs# 101*

## THURSDAY 30 NOVEMBER 2017 (CONTINUED)

### LUNCH

12:40PM - 2:10PM

Plaza Auditorium Foyer

### BIOLEGEND – AUSTRALIAN BIOSEARCH LUNCH SYMPOSIUM: TOOLS FOR IMMUNO-ONCOLOGY RESEARCH

1:00PM - 2:00PM

P7 & P8

**Kelly Lundsten**, Business segment manager, Advanced  
Cytometry Biologend Inc

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### BD SCIENCE COMMUNICATION AWARD SESSION

1:00PM - 2:00PM

Plaza Auditorium

Chairs: James Wells & Jazmina-Libertad Gonzalez-Cruz

- 1:00 PM **Marios Koutsakos**  
Flu and how not to catch it *abs# 102*
- 1:10 PM **Felix Marsh-Wakefield**  
Manipulative Michele and Trustful Thomas: Mast cells activate regulatory B cells *abs# 103*
- 1:20 PM **Bethany Pillay**  
The function of immune cells in patients with a mutation in the DOCK8 gene before and after bone marrow transplant *abs# 104*
- 1:30 PM **Amy Prosser**  
Organ donors; giving more than expected *abs# 105*
- 1:40 PM **Erica Wynne-Jones**  
Immunity at the front line *abs# 106*
- 1:50 PM **Kelly-Anne Masterman**  
Public communications outreach - advances in dendritic cell isolation and research for cancer immunotherapy *abs# 107*

### WORKSHOP 9: DC AND IMMUNE REGULATION

2:10PM - 4:00PM

P9

Chairs: Meredith O'Keeffe & Pablo Silveira

- 2:10 PM **Michael Chopin**  
A novel regulatory network controlling the diversification of the dendritic cell lineages *abs# 108*
- 2:25 PM **Cameron Bastow**  
The atypical chemokine receptor ACKR4 regulates dermal chemokine bioavailability and dendritic cell egress *abs# 109*
- 2:40 PM **Dawn Lin**  
Assessment of clonal kinetics reveals multiple trajectories of dendritic cell development *abs# 110*
- 2:55 PM **Yoke Seng Lee**  
Whole blood human DC immunoprofiling in advanced melanoma patients *abs# 111*
- 3:10 PM **Patrick Schriek**  
Linking adaptive and innate immunity: Covalent binding of Complement C3 to MHC class II molecules regulates dendritic cell development *abs# 112*
- 3:25 PM **Elise Gressier**  
Dissecting the molecular mechanisms underpinning T cell help for dendritic cell *abs# 113*
- 3:40 PM **Johannes Mayer**  
Dendritic cell plasticity regulates CD4 T cell differentiation against different pathogens *abs# 114*

## THURSDAY 30 NOVEMBER 2017 (CONTINUED)

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### WORKSHOP 10: AUTOIMMUNITY

2:10PM - 4:00PM

P7 & P8

Chairs: Margaret Jordan & Katharina Robichon

- 2:10 PM **Joanne Reed**  
Single cell analysis of self-reactive rogue b-cell clones in autoimmune disease *abs# 115*
- 2:25 PM **Margaret Jordan**  
Dissecting the “killer module” and its role in Multiple Sclerosis *abs# 116*
- 2:40 PM **Christophe Pellefigues**  
Prostaglandin d2 receptors contribute to lupus pathogenesis by promoting basophils accumulation in secondary lymphoid organs *abs# 117*
- 2:55 PM **Alicia Wilson**  
Reduced cerebral Th17 cell migration confers protection to EAE in DOCK8 deficient mice *abs# 118*
- 3:10 PM **Fabienne Brilot**  
Exploring the importance of antigen conformation in human myelin oligodendrocyte glycoprotein autoantibody binding *abs# 119*
- 3:25 PM **Anne-Sophie Bergot**  
ChgA-specific liposome treatment of NOD mice prevents T1D progression *abs# 120*
- 3:40 PM **Sarah Jones**  
The glucocorticoid-induced leucine zipper (GILZ): a hurdle for the acquisition of effector functions in leukocytes and a determinant of immune homeostasis *abs# 121*
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### WORKSHOP 11: INNATE IMMUNITY

2:10PM - 4:00PM

P6

Chairs: Tara Roberts & Adam Wall

- 2:10 PM **Richard Berry**  
A viral immunoevasin controls innate immunity by targeting the prototypical natural killer cell receptor family *abs# 122*
- 2:25 PM **Melanie Shakespear**  
Histone Deacetylase 7 links metabolism and inflammation in macrophages *abs# 123*
- 2:40 PM **Meg Donovan**  
RP105 drives mycobacteria-induced type I interferon responses *abs# 124*
- 2:55 PM **Lin Luo**  
A novel master adaptor for toll-like receptors tailors pro-inflammatory responses *abs# 125*
- 3:10 PM **Cyril Seillet**  
Androgen signaling negatively controls group 2 innate lymphoid cells *abs# 126*
- 3:25 PM **Marcia Munoz**  
Imaging approaches to understand the effects of bisphosphonate drugs on macrophages outside the skeleton *abs# 127*
- 3:40 PM **Rebecca Coll**  
NLRP3 triages danger signals to tailor the immune response to infection and injury *abs# 128*

## THURSDAY 30 NOVEMBER 2017 (CONTINUED)

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### WORKSHOP 12: THE BEST OF ICB AND CTI

2:00PM - 4:00PM

Plaza Auditorium

Chairs: Anne La Flamme & Gabrielle Belz

Sponsored by **WILEY**

- 2:00 PM **Menno van Zelm**  
IgG-subclass expressing B cells in humans: age-dependent changes and implications for allergen immunotherapy and IgG4-related disease *abs# 129*
- 2:15 PM **Oanh Nguyen**  
Understanding CD8<sup>+</sup> T cell responses towards the native and alternate HLA-A\*02:01-restricted WT1 epitope *abs# 130*
- 2:30 PM **Deborah Burnett**  
Murine LRBA-deficiency causes CTLA-4 deficiency in Tregs without progression to immune dysregulation *abs# 131*
- 2:45 PM **Michael Pender**  
Defective T cell control of Epstein–Barr virus infection in multiple sclerosis *abs# 132*
- 3:00 PM **Katherine Kedzierska**  
Maintenance of the EBV-specific CD8<sup>+</sup> TCRab repertoire in immunosuppressed lung transplant recipients *abs# 133*
- 3:15 PM **Sarah Young**  
Adoptive cell therapy with CD4<sup>+</sup> T helper 1 cells and CD8<sup>+</sup> cytotoxic T cells enhances complete rejection of an established tumour *abs# 134*
- 3:30 PM **Elena Shklovskaya**  
Efficacy of regulatory T cells depletion for the eradication of melanoma by neoantigen-specific CD4 T cells *abs# 135*
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### POSTER SESSION THREE

4:00PM - 5:30PM

Plaza Auditorium Foyer

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### THE LAFFERTY DEBATE

5:30PM - 6:30PM

Plaza Auditorium

Chair: Dale Godfrey

Immunology as a discipline is dead. The microbiome rules over health and disease, and we all need to become microbiologists.

Affirmative: **David Tcharke**  
**Anne La Flamme**  
**Simon Barry**

Opposition: **Philip Hansbro**  
**Allison Pettit**  
**Michael Hickey**

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### Conference Dinner

7:30PM - 12:30AM

Rydges South Bank

Podium 1-4, 9 Glenelg St, South Brisbane QLD 4101

## FRIDAY 1 DECEMBER 2017

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### PLENARY IV: TISSUE-SPECIFIC IMMUNOLOGY

9:00AM - 10:00AM

Plaza Auditorium

Chairs: Sumaira Hasnain & Patrick Bertolino

- 9:00 AM     **Philip Hansbro**  
Understanding pathogenesis to develop new therapies for severe asthma & COPD     *abs# 136*
- 9:30 AM     **Sarah Robertson**  
microRNA regulation of T cell tolerance in pregnancy     *abs# 137*
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### PLENARY V: CLINICAL AND TRANSLATIONAL IMMUNOLOGY

10:00AM - 12:15PM

Plaza Auditorium

Chairs: Rajiv Khanna & Stuart Tangye

- 10:00 AM     **Ken Smith**  
Genomic dissection of immune-mediated disease: a new biology of clinical outcome in autoimmunity?     *abs# 138*
- 10:30 AM     **Morning Tea** (*Plaza Auditorium Foyer*)
- 11:00 AM     **Carola Vinuesa**  
T<sub>FH</sub>-derived dopamine accelerates productive T:B synapses in human germinal centres     *abs# 139*
- 11:30 AM     **Jean-Laurent Casanova**  
Toward a genetic theory of childhood infectious diseases     *abs# 140*
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### PRESIDENT'S LECTURE

12:00PM - 12:45PM

Plaza Auditorium

Chair: Susanne Heinzel

- 12:00 PM     **Chris Goodnow**  
Actively acquired tolerance in the antibody system     *abs# 141*
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### CLOSING CEREMONY (INCLUDING AWARDS AND PRIZES)

12:45PM - 1:45PM

Plaza Auditorium

Chairs: Antje Blumenthal & Kristen Radford