<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>16:30</td>
<td>Opening Ceremony</td>
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<tr>
<td>17:00</td>
<td>Plenary 1</td>
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<tr>
<td></td>
<td>New ways to die: caspases, kinases and everything in-between. Vishva Dixit</td>
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<td>17:45</td>
<td>Plenary 2</td>
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<td>The potential of immune checkpoint blockade for fighting against Alzheimer's disease</td>
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<td>18:30</td>
<td>Women in Science Award</td>
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<td>18:30</td>
<td>Resolution: a better solution</td>
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<td>19:00 – 20:30</td>
<td>Welcome Reception</td>
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DAY TWO | Monday 16 September

9:00  Plenary 3 | Parkside Ballroom
Chair: Kate Schneider, RMB, The University of Queensland & John Hamilton, University of Melbourne
Bacterial infection and cell intrinsic immunity
Elizabeth Hartland
Hudson Institute of Medical Research, Australia

9:45  Plenary 4 | Parkside Ballroom
Chair: Kate Schneider, RMB, The University of Queensland & John Hamilton, University of Melbourne
Macrophage and dendritic cell biology: from development to function
Piero Ghibaudi
Singapore Immunology Network (SING), Agency for Science, Technology and Research (A*STAR), Singapore

10:30 - 11:00  Morning Tea | Exhibition, The Gallery

11:00 - 11:15  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

AKTST4290, a CR3 Inhibitor, is Efficacious in Models of Age-Related Eosinophilic Inflammation
Arnaud Teichert
Alkavest, United States

11:15 - 11:30  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

CCL17 Blockade as A Therapy for Osteoarthritis Pain and Disease
Min-Joon Lee
University of Melbourne, Australia

11:30 - 11:45  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Pentosan Polysulfate Therapy For The Lysosomal Storage Diseases
Calopso Simonaro
Institution of Medicine, Japan

11:45 - 11:50  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Mitochondria-Targeted Sulfide Delivery Molecules Prevent/Reverse Cigarette Smoke-Induced Inflammation
Activation/Activity in Vitro
Matthew Whitman
University of Exeter, United Kingdom

11:50 - 11:55  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

A novel caspase-1 biosensor to monitor the progression and attenuation of inflammation in vivo
Sarah Talley
Lozoya University Chicago, United States

11:55 - 12:00  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

An adaptive in vivo device for real time monitoring of cytokines towards precision therapeutics in inflammation
Guzhao Liu
University of New South Wales, Australia

12:00 - 12:15  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Recombinant human ADAMTS13 treatment and anti-NET strategies enhance skin allograft survival in mice
Siu Ling Wong
Nanyang Technological University, Singapore

12:15 - 12:30  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Control of Inflammation by the TPL2 Signaling Complex
Brent McKenzie
Genentech, United States

12:30 - 13:30  Lunch | Exhibition, The Gallery

13:30 - 13:50  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Targeting immunity to ameliorate fibrosis
Tori Wynn
Pfizer, United States

13:30 - 13:45  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Novel therapeutic mAb CSL311 offers therapeutic options for the treatment of diseases mediated by the common beta chain of the IL-3, GM-CSF and IL-5 receptors
Cathy Ouwak
CSL Limited, Australia

13:45 - 13:50  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

Development of anti-inflammatory and anti-biotoxic inhibitors of cathepsin B
Wolfgang Jarolimek
Pharmaceuticals Ltd, Australia

13:50 - 14:00  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

The immune checkpoin B4 as a novel therapeutic target in inflammation and cancer
Toshyuki Taka
Toho University, Japan

14:00 - 14:15  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

The immune checkpoin B4 as a novel therapeutic target in inflammation and cancer
Toshyuki Taka
Toho University, Japan

14:15 - 15:00  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

The immune checkpoin B4 as a novel therapeutic target in inflammation and cancer
Toshyuki Taka
Toho University, Japan

15:00 - 15:30  Room Parkside Ballroom
C3.3  Oral Presentations (15 minutes)

The immune checkpoin B4 as a novel therapeutic target in inflammation and cancer
Toshyuki Taka
Toho University, Japan

15:30 - 16:00  Afternoon Tea

16:00 - 17:00  Centenary Institute Public Lecture | Parkside Ballroom
Inflammation: a new approach to obesity and depression
Michael Kastin
Chair: Mathew Yaxas, CEO Centenary Institute
DAY THREE | Tuesday 17 September

**Morning Symposia 5**

**Morning Symposia 5**
**T1: Immunotherapy**
**Chairs:** Jane Olarte & Andrew Cook
**Room:** Parkside Ballroom 1

- **T1: Pattern Recognition Receptors**
  - **Chair:** Rebecca Coll & Ronan Kapustinov
  - **Presenters:**
    - **Joseph Arron**
    - **Peter MacCallum Cancer Centre, Australia**
  - **Other Presenters:**
    - **Jason Ochoa**
    - **University of Melbourne, Australia**

- **Morning Symposia 5**
  - **T2: Epigenetics & Gene Regulation**
    - **Chair:** Seth Masters & Joanne Reed
    - **Presenters:**
      - **Ana Domingos**
      - **Oxford University, United Kingdom**
    - **Other Presenters:**
      - **Florian Uhle**
      - **Heidelberg University Hospital, Germany**

- **Morning Symposia 5**
  - **T3: Metabolism & Microbiota**
    - **Chair:** Laurence Macrae & Andrew Murphy
    - **Presenters:**
      - **Peter MacCallum Cancer Centre, Australia**
    - **Other Presenters:**
      - **Miroslaw Adam**
      - **University of Sydney, Australia**

**Afternoon Symposia 5**

- **Afternoon Symposia 5**
  - **T1: Immunotherapy**
    - **Chairs:** Jane Olarte & Andrew Cook
    - **Room:** Parkside Ballroom 1
  - **Presenters:**
    - **Joseph Arron**
    - **Peter MacCallum Cancer Centre, Australia**
  - **Other Presenters:**
    - **Jason Ochoa**
    - **University of Melbourne, Australia**

- **Afternoon Symposia 5**
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    - **Presenters:**
      - **Peter MacCallum Cancer Centre, Australia**
    - **Other Presenters:**
      - **Miroslaw Adam**
      - **University of Sydney, Australia**
DAY FOUR | Wednesday 18 September

**10:30 – 11:00** Morning Tea | Exhibition, The Gallery

**11:00 – 11:15** Morning Symposium 9 | T1: The Neuroimmune Axis
Chairs: Anna Dominguez & Anthony Con

Room Parkside Ballroom 1

C.3.3 Oral Presentations

11:00 – 11:15 Sensory Neurons Respond to Influenza Virus Infection and Alter Pulmonary Inflammation
Kirsty Short
University of Queensland, Australia

Pro-inflammatory macrophages impair responses to acute muscle injury in the elderly
Connie Jackman
Curtin Health Innovation Research Institute, Australia

Evolution of Pathogenic Autoantibody by Lymphoma Mutations in Rogue B Cell Clones
Joanne Reid
Garvan Institute of Medical Research, Australia

Effect of Modulation of the Oxidative Stress Response on the NLRP3 Inflammasome, Macrophage Cytokine Production and Vascular Inflammation in Diabetic Mice. Therapeutic and Genetic Studies.
Judie de Haan
Baker Heart and Diabetes Institute, Australia

**11:15 – 11:30** Cholinergic regulation of bone marrow vascular microenvironment influences hematopoietic stem cell mobilization
Andrew Murphy
Baker Heart And Diabetes Institute, Australia

Autoritine type I interferon induces the first ‘break’ in the TCA cycle of LPS-stimulated M1 macrophages
Andrew Fleetwood
University of Melbourne, Australia

Proteotoxic stress and Inflammation, a study on Proteasome-Associated Autoinflammatory Syndrome
Sophia Davidson
Walter and Eliza Hall Institute For Medical Research, Australia

Regulation of cellular cholesterol homeostasis modulates macrophage VEGF-C to promote efficient lymphatic drainage.
Hee Young Lim
National University of Singapore, Singapore

**11:30 – 11:45** CD8+ T lymphocytes contribute to the development of neovascularization in ischaemic retinopathy
Devy Deilanty
Monash University, Australia

Uncovering new roles for macrophage migration inhibitory factor (MIF) in inflammation and cell biology
James Harris
Monash University, Australia

Who is the culprit? Characterization of the IL-17 producing cells in Axial Spondyloarthritis
Nicolas Roigne
Hopital Cochin, France

Modulation of the cross-talk between NLRP3 inflammasome and endothelial transcription factor EB: a new strategy to halt inflammation and improve poor wound healing in diabetes.
Francesco Squadrino
University of Messina, Italy

**11:45 – 15:50** Oral Presentations

C.3.4 & C.3.5

**11:45 – 11:50** Six-specific neuroprotection by inhibition of the Y-chromosome encoded SRY, an experimental Parkinson’s disease
Vincent Harley
Hudson Institute of Medical Research, Australia

Anti-inflammatory mechanisms of PDE4 inhibitors: Rolipram induces macrophage polarization from inflammatory (M1) to healing promoting (M2) phenotype through MKP-1 phosphorylation
Tima Leppaenen
Tampere University, Finland

New Therapeutic Strategies Using Nanocarriers Containing Propionic Acid in Experimental Alimentary Contact Dermatitis
Caroline Ferreira
Universidade Federal De Sao Paulo, Brazil

Transcriptional and functional monocyte reprogramming in patients with familial hypercholesterolemia persists despite treatment with statins
Siron Baecker
Murdock Childrens Research Institute, Australia

Ka Ke Ting
Centenary Institute, Australia

Pipiri Inhibits IL-1 Release from Neutrophils by Regulation of Caspase-8 and RIP2/MLKL. Dependent Forms of Cell Death
Mary Speir
Jackson Laboratory For Medical Research, Australia

Adenosine A2A receptor blockade reduces fibrotic alterations through Wnt3/t-Caixin signaling
Natalia Irimia
University of Messina, Italy

The glomerular Endothelial Surface Layer (ESL) impedes monocyte recruitment but promotes neutrophil recruitment to the glomerulus
Zhaoao Paul Tan
Monash University, Australia

**11:55 – 12:00** The risk of inflammomas and IL-1beta in sterile CNS damage and regeneration
Yousef Donenwalschi
Queen’s University Belfast, United Kingdom

Investigating remodeling of self-reactive B cells in an unmanipulated polycystic kidney mouse model
Deborah Burnett
Garvan Institute of Medical Research, Australia

The glomerular Endothelial Surface Layer (ESL) impedes monocyte recruitment but promotes neutrophil recruitment to the glomerulus
Zhaoao Paul Tan
Monash University, Australia

**12:00 – 12:15** Targeting platelets as a novel anti-inflammatory and neuroprotective approach for multiple sclerosis
Jacqueline Orian
La Trobe University, Australia

NK cells promote autostimulatory-induced inflammatory arthritis through production of GM-CSF that is negatively regulated by the signaling suppressor CIS
Cynthia Louis
Walter And Eliza Hall Institute of Medical Research, Australia

Fibulin-1c regulates transforming growth factor beta activation in tissue inflammation and fibrosis
Gang Liu
University of Technology Sydney, Australia

Therapeutic knockdown of RPI71 gene expression reduces NF-κB inflammation in macrophages and prevents atherosclerosis lesion development
Michele Grimbaldeston
Australian National University for Molecular Biosciences, Australia

**12:15 – 12:30** An antiseptic drug against cytosolic Phospholipase A2s for treatment and prevention the progression of neurodegenerative diseases
Rachel Levy
Ben-Gurion University of the Negev, Israel

Activation of alternative CD8 T cells in the hepatic allograft mediates their rapid clearance and is essential and sufficient to induce tolerance after liver transplantation
Patrick Bertolino
Centenary Institute, Australia

Diabetes-mediates macrophage-fibroblast crosstalk through excessive transfer of mRNA-stabilizing protein adversely affects cardiac inflammation and fibrosis
Prasanna Krishnamurthy
University of Alabama at Birmingham (UAB), United States

Expression of the interleukin-3 receptor complex by breast cancer cells promotes vascular inflammation via a PI3K-dependent mechanism and is associated with poor outcome
Claudine Bonder
Centre For Cancer Biology, Australia

**12:30 – 13:30** Lunch | Exhibition, The Gallery

**13:30 – 15:00** Afternoon Symposium 7 | T1: Infectious Diseases
Chairs: Phil Hansbro & Lisa Ng

Room Parkside Ballroom 2

C.3.4 & C.3.5

**13:30 – 14:00** Cellular and Molecular Mechanism of Arbovirus Pathogenesis: mechanisms to therapies
Lisa Ng
Singapore Immunology Network (SIgN), A*STAR, Singapore

Sponsored by Paradigm Pharmaceuticals

Treg and NK Cells: Guardians of Immune Homeostasis
Ethan Shevach
Laboratory of Immune System Biology, United States

The local microenvironment drives the identity of tissue-resident memory T cells
Laura Mackay
University of Melbourne, Australia

**14:00 – 14:30** Understanding how viruses cause arthritis.
Suresh Mahalingam
Griffith University, Australia

Targeting Dendritic Cells for Antigen-specific Tolerising Immunotherapy in Mucosal Disease
Ranjeny Thomas
University of Queensland, Australia

UV radiation exposure, vitamin D and reduced progression of multiple sclerosis and autoimmunity
Prue Hart
Tetragon Kids Institute, Australia

**14:30 – 15:00** Metabolic control of innate immune interactions in fungal infections
Ana Traven
Biomedicine Discovery Institute, Monash University, Australia

Transluminalins 2: A protein croslinking enzyme that drives renal fibrosis through changes in ECM homeostasis and TGFB1 activation.
Tim Johnson
UCB, United Kingdom

**15:00 – 15:30** Rf105 promotes mycobacteria-induced type I interferon responses
Ant Blumenthal
University of Queensland and Diamantina Institute, Australia

Immunoregulation in glomerulosclerosis as an archetype for autoimmune disease
Richard Kitching
Monash University, Australia

Bone destruction in arthritis and osteoarthritis
Hiroshi Takayanagi
University of Tokyo, Japan

**15:30 – 16:00** Afternoon Tea | Exhibition, The Gallery

**16:00 – 17:00** New Investigator | Parkside Ballroom 4
Chairs: Tim Johnson, University of Birmingham & Nathalie Voronov, Inserm

**16:00 – 16:15** ICOSIL COMP—a powerful enhancer of anti-tumour responses restored by immune checkpoint inhibition
Amanda Sparrow
Sunshine Research Institute, Canada

**16:15 – 16:30** A multi-component toxin from Bacillus cereus activates the NLRP3 inflammasome
Ankurit Mathur
Australian National University, Australia

**16:30 – 16:45** Dispersed NLRP3 mediated inflammation in bats
Matah Ahn
Duke-NUS Medical School, Singapore

**16:45 – 17:00** Lepin signaling impairs macrophage defense against Salmonella Typhimurium
Gokhan Cildir
Centre For Cancer Biology, Australia

**17:00 – 17:30** IAIS Lifetime Achievement Award (30 min) | Parkside Ballroom 1

**17:30 – 18:00** University of Melbourne, Australia

John Hamilton
University of Melbourne, Australia

**19:00 – 22:00** Congress Dinner | Parkside Ballroom 2
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<th>Time</th>
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<th>Chairs</th>
<th>Speakers</th>
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<tr>
<td>9:30</td>
<td>Plenary 9</td>
<td>Parkside Ballroom 1</td>
<td>Chairs: Paul Hertzog, Monash University &amp; Carola Vinuesa, Australian National University</td>
<td>Immunometabolism and NLRP3 as targets for novel anti-inflammatory therapeutics</td>
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<td>Paul O'Neill, Trinity College Dublin, Ireland</td>
<td>Supported by EMBO</td>
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<td>10:15</td>
<td>Plenary 10</td>
<td>Parkside Ballroom 1</td>
<td>Chairs: Paul Hertzog, Monash University &amp; Carola Vinuesa, Australian National University</td>
<td>Microbial control of metabolic phenotypes.</td>
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<td>Elaine Holmes, Imperial College London, United Kingdom</td>
<td>Sponsored by Bupa</td>
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<td>11:00 – 11:30</td>
<td>Morning Tea</td>
<td>Parkside Ballroom 2</td>
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<td>11:30</td>
<td>Plenary 11: Joint WCI-AAVBM-AVBM Session</td>
<td>Parkside Ballroom 1</td>
<td>Chairs: Michael Hickey, Monash University &amp; Natasha Harvey, University of South Australia</td>
<td>Killer Clones: clonal hematopoiesis as a new causal risk factor for cardio-metabolic diseases</td>
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<td>Ken Walsh, University of Virginia, United States</td>
<td>Sponsored by The University of Queensland</td>
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<td>12:15</td>
<td>Plenary 12: Joint WCI-AAVBM-AVBM Session</td>
<td>Parkside Ballroom 1</td>
<td>Chairs: Michael Hickey, Monash University &amp; Natasha Harvey, University of South Australia</td>
<td>Understanding sterile injury</td>
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<td>Paul Kubes, University of Calgary, Canada</td>
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<td>13:00 – 13:30</td>
<td>Closing Ceremony</td>
<td>Parkside Ballroom 1</td>
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<td>Chairs: Jenny Gamble, Centenary Institute &amp; Matt Sweet, IMB, The University of Queensland, Co-Convenors of WCI 2019</td>
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