



# 14th World Congress on Inflammation Sydney 2019

Inflammation Down Under: A Harbour for New Ideas

**15-19 September 2019**

[www.wci2019.org](http://www.wci2019.org)

## DAY ONE | Sunday 15 September 2019

16:30	Opening Ceremony
17:00	<b>Plenary 1   Parkside Ballroom</b> <i>Chairs: Jenny Gamble, Centenary Institute &amp; Matt Sweet, IMB, The University of Queensland, Co-Convenors of WCI 2019</i>
	New ways to die: caspases, kinases and everything in-between. <b>Vishva Dixit</b> <i>Genentech, Inc., United States</i>
17:45	<b>Plenary 2   Parkside Ballroom</b> <i>Chairs: Jenny Gamble, Centenary Institute &amp; Matt Sweet, IMB, The University of Queensland, Co-Convenors of WCI 2019</i>
	The potential of immune checkpoint blockade for fighting against Alzheimer's disease <b>Michal Schwartz</b> <i>Weizmann Institute of Science, Israel</i>
18:30	<b>Women in Science Award   Parkside Ballroom</b> <i>Chair: Lisa Schopf, Pfizer</i>
18:30	Resolution: a better solution <b>Catherine Godson</b> <i>Conway Institute &amp; School of Medicine, University College Dublin, Ireland</i>
19:00 – 20:30	Welcome Reception   Exhibition, The Gallery

**Genentech**

**DAY TWO | Monday 16 September**

9:00	<b>Plenary 3   Parkside Ballroom</b> <i>Chairs: Kate Schroder, IMB, The University of Queensland &amp; John Hamilton, University of Melbourne</i>			
	Bacterial infection and cell intrinsic immunity <b>Elizabeth Hartland</b> <i>Hudson Institute of Medical Research, Australia</i>			
9:45	<b>Plenary 4   Parkside Ballroom</b> <i>Chairs: Kate Schroder, IMB, The University of Queensland &amp; John Hamilton, University of Melbourne</i>			
	Macrophage and dendritic cell biology: from development to functions <b>Florent Ginhoux</b> <i>Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR), Singapore</i>			
10:30 – 11:00	<b>Morning Tea   Exhibition, The Gallery</b>			
11:00 – 12:30	<b>Morning Symposia 1</b> <b>T1: Biomarkers &amp; New Therapeutic Targets</b> <i>Chair: Ian Adcock &amp; Robyn O'Hehir</i>	<b>Morning Symposia 2</b> <b>T1: Infection &amp; Inflammation</b> <b>AID</b> Australian Infectious Diseases research centre Sponsored by The Australian Infectious Diseases Research Centre <i>Chair: Katharina Ronacher &amp; Kate Lawlor</i>	<b>Morning Symposia 3</b> <b>T2: Leukocyte Biology &amp; Trafficking</b> <i>Chair: Jennifer Stow &amp; Tetsuya Taga</i>	<b>Morning Symposia 4</b> <b>T3: Mucosal Inflammation</b> <i>Chair: Kirsty Short &amp; Sumaira Hasnain</i>
<b>Room</b>	<b>Parkside Ballroom</b>	<b>C3.3</b>	<b>C3.4 &amp; C3.5</b>	<b>C3.6</b>
<i>Oral Presentations (15 minutes)</i>				
11:00 – 11:15	AKST4290, a CCR3 Inhibitor, is Efficacious in Models of Age-Related Eosinophilic Inflammation <b>Arnaud Teichert</b> <i>Alkermes, United States</i>	Glycolipid-peptide vaccination induces liver-resident memory CD8+ T cells that protect against malaria. <b>Lauren Holz</b> <i>Peter Doherty Institute for Infection and Immunity, Australia</i>	Reconnaissance neutrophils survey lymph nodes at steady state <b>Ania Bogoslawski</b> <i>University of Calgary, Canada</i>	Active epithelial serine proteases are produced by intestinal epithelium to control mucosal biofilms <b>Nathalie Vergnolle</b> <i>Inserm U1220, France</i>
11:15 – 11:30	CCL17 Blockade as A Therapy for Osteoarthritis Pain and Disease <b>Ming-Chin Lee</b> <i>University of Melbourne, Australia</i>	TLR-inducible mitochondrial fission is an antimicrobial response that can be harnessed to combat intramacrophage bacterial pathogens. <b>Ronan Kapetanovic</b> <i>University of Queensland, Australia</i>	Ectodomain shedding of L-selectin licenses neutrophil effector function in cardiovascular disease. <b>Aleksander Ivetic</b> <i>King's College London, United Kingdom</i>	Luminal IL-1 Impairs Epithelial Barrier Integrity and signals pain in Ulcerative Colitis <b>Patrick Hughes</b> <i>University of Adelaide, Australia</i>
11:30 – 11:45	Pentosan Polysulfate Therapy For The Lysosomal Storage Diseases <b>Calogera Simonaro</b> <i>Icahn School of Medicine At Mount Sinai, United States</i>	A dominant-negative mutation in TNFR1 results in increased susceptibility to pulmonary tuberculosis infection <b>Bernadette Saunders</b> <i>University of Technology Sydney, Australia</i>	Endothelial IQGAP1, Calmodulin and CaMKII $\delta$ Play a Role in Leukocyte Transmigration <b>Prarthana Dalal</b> <i>Northwestern University Feinberg School of Medicine, United States</i>	Cathelicidin triggers a two-signal mechanism for CXCL8 synthesis in colonic epithelium upon Salmonella typhimurium or LPS challenge <b>Ravi Holani</b> <i>University of Calgary, Canada</i>
<i>Flash Talks (5 minutes)</i>				
11:45 – 11:50	Mitochondria-Targeted Sulfide Delivery Molecules Prevent/Reverse Cigarette Smoke-Induced Inflammation Activation/Activity in Vitro <b>Matthew Whiteman</b> <i>University of Exeter, United Kingdom</i>	Thrombocyte inhibition restores protective immunity to mycobacterial infection in zebrafish <b>Elinor Hortle</b> <i>Centenary Institute, Australia</i>	Erythropoiesis suppression by bacterial liposaccharides is extrinsically mediated independently of G-CSF <b>Kavita Bisht</b> <i>Mater Research Institute, Australia</i>	Alveolar macrophages aid clearance of Legionella pneumophila infection in vivo <b>Garrett Ng</b> <i>University of Melbourne, Australia</i>
11:50 – 11:55	A novel caspase-1 biosensor to monitor the progression and attenuation of inflammation in vivo <b>Sarah Talley</b> <i>Loyola University Chicago, United States</i>	CD11c+ Human Epidermal Dendritic Cells Enriched in Inflamed Epidermis Transmit HIV <b>Kirstie Bertram</b> <i>Westmead Institute For Medical Research, Australia</i>	PDI regulation of neutrophil Mac-1 function via allosteric disulphides in the $\beta 2$ subunit <b>Joyce Chiu</b> <i>University of Sydney/Centenary Institute, Australia</i>	Deletion of Wntless in myeloid cells protects against impaired lung function induced by bleomycin <b>Chantal Donovan</b> <i>University of Technology Sydney, Australia</i>
11:55 – 12:00	An adaptive in vivo device for real time monitoring of cytokines towards precision theranostics in inflammation <b>Guozhen Liu</b> <i>University of New South Wales, Australia</i>	Activation mechanisms of the caspase-4 non-canonical inflammasome <b>Amy Chan</b> <i>University of Queensland, Australia</i>	Neutrophil phenotype and function in Behcet's disease. <b>Graham Wallace</b> <i>University of Birmingham, United Kingdom</i>	Mechanisms and Therapeutic Targeting of Immunometabolism in Chronic Obstructive Pulmonary Disease (COPD) <b>Lohis Balachandran</b> <i>University Of Newcastle/Hunter Medical Research Institute, Australia</i>
<i>Oral Presentations (15 minutes)</i>				
12:00 – 12:15	Recombinant human ADAMTS13 treatment and anti-NET strategies enhance skin allograft survival in mice <b>Siu Ling Wong</b> <i>Nanyang Technological University, Singapore</i>	Regulation of inflammatory signalling pathways by antithrombin in bacterial infectious diseases <b>Praveen Papareddy</b> <i>Lund University, Sweden</i>	The 'normalised endothelium' facilitates the subset-specific modulation of leukocyte transmigration in inflammation <b>Yang Zhao</b> <i>Centenary Institute, Australia</i>	Endosome and mitochondrial reactive oxygen species as novel targets in respiratory infectious disease <b>Stavros Selemidis</b> <i>RMIT University, Australia</i>
12:15 – 12:30	Control of Inflammation by the TPL2 Signaling Complex <b>Brent McKenzie</b> <i>Genentech, United States</i>	Bacterial vesicles induce inflammation by targeting mitochondria of macrophages <b>Thomas Naderer</b> <i>Monash University, Australia</i>	Following a sterile injury, Nlrp3 inflammasome-primed neutrophils return to the bone marrow to amplify granulopoiesis <b>Prabhakara Nagareddy</b> <i>University of Alabama Birmingham, United States</i>	Anionic glycoconjugates that block IL-4, IL-5 and IL-13 activity inhibit experimental allergic asthma and allergic rhinitis <b>Deirdre Coombe</b> <i>Curtin University, Australia</i>
12:30 – 13:30	<b>Lunch   Exhibition, The Gallery</b>			
12:45 – 13:30	<b>Meet the Editor Panel   C3.6</b>			
13:30 – 15:30	<b>Afternoon Symposia 1</b> <b>T1: Emerging Therapeutics + Clinical Trials I</b> Sponsored by Sydney Local Health District <i>Chair: Brent McKenzie &amp; Ranjeny Thomas</i>	<b>Afternoon Symposia 2</b> <b>T2: Immune Cell Signalling &amp; Trafficking</b> <i>Chair: Justine Mintern &amp; Najoua Lalaoui</i>	<b>Afternoon Symposia 3</b> <b>T3: Ageing &amp; Inflammation</b> Sponsored by The University of Queensland <i>Chair: Vera Gorbunova &amp; Connie Jackaman</i>	
<b>Room</b>	<b>C3.3</b>	<b>C3.4 &amp; C3.5</b>	<b>C3.6</b>	
13:30 – 14:00	Targeting immunity to ameliorate fibrosis <b>Tom Wynn</b> <i>Pfizer, United States</i>	PI3Kgamma regulates macrophage polarisation and inflammation in multiple receptor pathways. <b>Jennifer Stow</b> <i>University of Queensland, Australia</i>	The aging microbiome contributes to age-associated inflammation and immunosenescence <b>Dawn Bowdish</b> <i>McMaster Immunology Research Centre, Canada</i>	
14:00 – 14:30	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. <b>Cathy Owczarek</b> <i>CSL Limited, Australia</i>	Dynamics of immune cell migration and interaction visualized by intravital microscopy <b>Masaru Ishii</b> <i>Osaka University Graduate School of Medicine, Japan</i>	The innate defense/tolerance balance in bats <b>Linfa Wang</b> <i>Duke-NUS Medical School, Singapore</i>	
14:30 – 15:00	Development of anti-inflammatory and anti-fibrotic inhibitors of amine oxidases <b>Wolfgang Jarolimek</b> <i>Pharmaxis Ltd, Australia</i>	T cell immune regulation of epicardial adipose tissue inflammation in obese human subjects. <b>Paula Longhi</b> <i>Queen Mary University, United Kingdom</i>	High spare respiratory capacity is a key feature of virtual memory CD8 T cells, which is augmented by age, infection and IL-15 signaling. <b>Kylie Quinn</b> <i>RMIT University, Australia</i>	
15:00 – 15:30	The immune checkpoint B4 as a novel therapeutic target in inflammation and cancer <b>Toshiyuki Takai</b> <i>Tohoku University, Japan</i>	The control of inflammation via phosphorylation and dephosphorylation of the mRNA destabilising protein tristetraprolin. <b>Andy Clark</b> <i>University of Birmingham, United Kingdom</i>	HIV, Aging and Inflammation: A Dangerous Trio <b>Alan Landay</b> <i>Rush University Medical Center, United States</i>	
15:30 – 16:00	<b>Afternoon Tea</b>			
16:00 – 17:00	<b>Centenary Institute Public Lecture   Parkside Ballroom</b> Inflammation: a new approach to obesity and depression <b>Michael Mosley</b> <i>Chair: Mathew Vadas, CEO Centenary Institute</i>			
17:00 – 18:30	<b>Poster Session 1 + Drinks   Exhibition, The Gallery</b>			
19:00 – 21:00	<b>Student Function</b>			







**DAY THREE | Tuesday 17 September**

9:00	<b>Plenary 5   Parkside Ballroom 1</b> <i>Chairs: Nick Wilson, CSL &amp; Connie Wong, Monash University</i>			
	Sympathetic neuroimmunity in obesity <b>Ana Domingos</b> Oxford University, United Kingdom Keynote Speaker Sponsored by CSL Limited			
				
9:45	<b>Plenary 6   Parkside Ballroom 1</b> <i>Chairs: Nick Wilson, CSL &amp; Connie Wong, Monash University</i>			
	Activation of LINE1 transposons - new trigger of age-related inflammation <b>Vera Gorbunova</b> Rochester Aging Research Centre, United States Sponsored by The University of Queensland			
				
10:30 – 11:00	<b>Morning Tea   Exhibition, The Gallery</b>			
11:00 – 12:30	<b>Morning Symposia 5</b> <b>T1: Immunotherapy</b> <i>Chairs: Jane Oliaro &amp; Andrew Cook</i>	<b>Morning Symposia 6</b> <b>T2: Pattern Recognition Receptors</b> Sponsored by Hudson Institute of Medical Research <i>Chairs: Rebecca Coll &amp; Ronan Kapetanovic</i>	 <b>Morning Symposia 7</b> <b>T2: Epigenetics &amp; Gene Regulation</b> <i>Chairs: Seth Masters &amp; Joanne Reed</i>	<b>Morning Symposia 8</b> <b>T3: Metabolism &amp; Microbiota</b> <i>Chairs: Laurence Macia &amp; Andrew Murphy</i>
<b>Room</b>	<b>Parkside Ballroom 1</b>	<b>C3.3</b>	<b>C3.4 &amp; C3.5</b>	<b>C3.6</b>
	<i>Oral Presentations (15 minutes)</i>			
11:00 – 11:15	TNF in anti-tumour immunity and resistance to immunotherapy <b>Jane Oliaro</b> Peter MacCallum Cancer Centre, Australia	Connexin-dependent transactivation of phagocytes by cyclic GMP-AMP <b>Michael Gantier</b> Hudson Institute, Australia	The intergenerational burden of bacterial sepsis - evidence for an acquired and hereditary immunodeficiency <b>Florian Uhle</b> Heidelberg University Hospital, Germany	Microbial-derived metabolites as mediators of host immune tolerance <b>Jian Tan</b> University of Sydney, Australia
11:15 – 11:30	Unique myeloid populations found in solid tumours linked to patient response to immunotherapy <b>Mainthan Palendira</b> Centenary Institute, Australia	Mitochondrial apoptotic signalling activates Caspase-3 and -7 to trigger NLRP3 inflammasome and Caspase-8 Driven IL-1 $\beta$ activation <b>Kate Lawlor</b> Hudson Institute of Medical Research, Australia	The transcription factor ATF3 interacts with chromatin remodelling protein BRG1 to regulate inflammation during Mycobacterium tuberculosis infection <b>Joyoti Basu</b> Bose Institute, India	Dendritic cell-specific deletion of LKB1 aggravates high-fat diet-induced insulin resistance in an AMPK-independent manner <b>Bruno Guigas</b> Leiden University Medical Center, Netherlands
11:30 – 11:45	A Novel Role of IL-22 in Regulating Epithelial MHC Class II Expression and Antigen Presentation during Viral Infection <b>Ran Wang</b> University of Queensland, Australia	Understanding the signaling responses downstream of STING activation <b>Dominic De Nardo</b> Monash University, Australia	MicroRNAs of the miR-17-92 family inhibit macrophage activation and inflammation <b>Xiang Zhang</b> Institute for Immunology Tsinghua University, China	Impact of leptin and IL-33 on neutrophil extracellular trap (NET) formation in obese mice during sepsis <b>Elzbieta Kolaczowska</b> Jagiellonian University, Poland
	<i>Flash Talks (5 minutes)</i>			
11:45 – 11:50	THOR-809: An IL-2 engineered from an expanded genetic alphabet for the potential treatment of autoimmune (AI) disorders <b>Marcos Milla</b> Synthorx, Inc., United States	What is really happening during NOD signaling <b>Ueli Nachbur</b> Walter and Eliza Hall Institute, Australia	Identification of co-ordinated intron retention as a novel regulatory mechanism during the LPS response in macrophages <b>Tara Roberts</b> Western Sydney University, Australia	The impact of intestinal lymph leakage on adipose tissue expansion, inflammation and insulin resistance <b>Enyuan Cao</b> Monash University, Australia
11:50 – 11:55	Exploring a new venom biobank to quantitatively rank the inflammatory potency and new anti-inflammatory pathways using primary human leukocytes <b>John Miles</b> James Cook University, Australia	TLR compartmentalisation tailors the epithelial immune response. <b>Jacqueline Heath</b> University of Melbourne, Australia	An investigation into the anti-inflammatory properties of the PXR1 and PXR3 isoforms of the Pregnane X Receptor <b>Jerusalem Alleyne</b> University of Tennessee Health Science Center, United States	IRF5 is a mediator of metabolic adaptation and inflammatory activation in circulating monocytes of type-2 diabetic patients <b>Jean-Francois Gautier</b> University Paris 7, France
11:55 – 12:00	CCL22 and Foxp3 are key mediators of the immunosuppressive properties of cancer-associated inflammatory signatures in pancreatic tumor microenvironment <b>Dakang Xu</b> Shanghai Jiao Tong University, China	Transactivation of The Receptor for Advanced Glycation Endproducts Mediates Inflammation Triggered by G-Protein Coupled Receptors <b>Carlos Rosado</b> Monash University, Australia	Anti-inflammatory functions of glucocorticoids in rheumatoid arthritis through epigenetic and transcriptional regulation of CCL17 production <b>Adrian Achuthan</b> University of Melbourne, Australia	The Response to TNF-Blockers Treatment of Spa Patients Is Influenced By the Interplay between HLA-B27 and Gut Microbiota Composition at Baseline <b>Corinne Miceli-richard</b> Université Paris Descartes, France
	<i>Oral Presentations (15 minutes)</i>			
12:00 – 12:15	Tolerogenic CD40-deficient dendritic cells attenuate anti-myeloperoxidase glomerulonephritis by inducing regulatory B cells <b>Dragana Odobasic</b> Monash University, Australia	Caspase-4 and GBPs assemble the non-canonical inflammasome on cytosolic bacterium <b>Dave Boucher</b> University of Lausanne, Switzerland	Timely expression of key inflammatory genes during macrophage activation is mediated by coordinated splicing of nuclear detained intron-retaining transcripts <b>Justin Wong</b> Centenary Institute, Australia	The Role of NLRP6 Inflammasome and Microbiota in Gut Homeostasis and Susceptibility to the Pathogen Brucella Abortus Oral Infection <b>Angelica Vieira</b> Universidade Federal De Minas Gerais, Brazil
12:15 – 12:30	Correction of M-CSFR and Rank Overexpression On G551D-CFTR Osteoclast Precursor Monocytes by IVACAFTOR, a CFTR Potentiator. <b>Frédéric Velard</b> URCA, France	The mechanism of cytoplasmic signaling by Toll-like receptors <b>Bostjan Kobe</b> University of Queensland, Australia	Epigenetic regulation of tumor-associated MDSC and Treg activity by the CBP/p300-bromodomain <b>Jane Grogan</b> Genentech, United States	Non-transcriptional function of TFEB in regulating mitochondrial homeostasis and inflammation <b>Nirmal Robinson</b> University of South Australia, Australia
12:30 – 13:30	<b>Lunch   Exhibition</b>			
13:30 – 15:30	<b>Afternoon Symposia 4</b> <b>T1: Emerging Therapeutics + Clinical Trials II</b> <i>Chairs: Ian Wicks &amp; Adriana Baz Morell</i>	<b>Afternoon Symposia 5</b> <b>T2: Mechanisms of Inflammation &amp; New Pharmacological Targets</b> <i>Chairs: Slavatore Cuzzocrea &amp; Giorgio Racagni</i>	<b>Afternoon Symposia 6</b> <b>T3: Neuroinflammation</b> Sponsored by University of Sydney <i>Chairs: Georges Grau &amp; Yvonne Dombrowski</i>	
<b>Room</b>	<b>C3.3</b>	<b>C3.4 &amp; C3.5</b>	<b>C3.6</b>	
13:30 – 14:00	Dual blockade of IL-4 and IL-13 with dupilumab, an IL-4R alpha antibody, is required to broadly inhibit type 2 inflammation <b>Matt Sleeman</b> Regeneron Pharmaceuticals, United States	Immunomodulation of mature dendritic cells in Parkinson's disease: A novel role of intracellular Toll like receptors <b>Salvatore Cuzzocrea</b> University of Messina, Italy	Neural Repair after Ischemic Brain Injury <b>Akihiko Yoshimura</b> Keio University, Japan	
14:00 – 14:30	Emerging therapies for Diabetic Macular Edema, a complex vasogenic and inflammatory eye disease <b>Megan Baldwin</b> Opthea, Australia	Therapeutic efficacy and potential mechanisms of idebenone in colitis <b>Raj Eri</b> University of Tasmania, Australia	Neuro-immune interactions during inflammation <b>Connie Wong</b> Monash University, Australia	
14:30 – 15:00	Emerging Therapeutics and Clinical Trials – Identifying Novel Biomarkers of Neutrophil targeting <b>Judith Field</b> CSL Innovation, Australia	GILZ a mediator of glucocorticoid anti-inflammatory effects <b>Carlo Riccardi</b> University of Perugia, Italy	The eye as a complex immune environment: an immunological window into the brain and meninges <b>Paul McMenamin</b> Monash University, Australia	
15:00 – 15:30	Beyond type 2 cytokines in asthma: new target discovery from old clinical trials <b>Joseph Arron</b> Genentech, United States	Mechanism of action of the small molecule NLRP3 inflammasome inhibitor MCC950 <b>Rebecca Coll</b> Queen's University Belfast, United Kingdom	Extracellular Vesicles in the Immunopathology of Infectious Diseases – the Examples of Cerebral Malaria and Sepsis <b>Georges Grau</b> University of Sydney, Australia	
15:30 – 17:00	<b>Afternoon Tea + Poster Session 2 + Drinks   Exhibition, The Gallery</b>			
18:00 – 19:30	<b>Invited Speakers Function at Government House</b>			

**DAY FOUR | Wednesday 18 September**

9:00	<b>Plenary 7   Parkside Ballroom 1</b> <i>Chairs: Laura Mackay, University of Melbourne &amp; Richard Kitching, Monash University</i>			
	Rare gene variants and rare cells in human autoimmunity and atopy <b>Carola Vinuesa</b> <i>Australian National University, Australia</i>			
9:45	<b>Plenary 8   Parkside Ballroom 1</b> <i>Chairs: Laura Mackay, University of Melbourne &amp; Richard Kitching, Monash University</i>			
	Viral infections, Asthma and the role of the microbiome <b>Nicholas Lukacs</b> <i>University of Michigan, United States</i>			
10:30 – 11:00	<b>Morning Tea   Exhibition, The Gallery</b>			
11:00 – 12:30	<b>Morning Symposia 9</b> <b>T1: The Neuro-Immune Axis</b> <i>Chairs: Ana Domingos &amp; Anthony Don</i>	<b>Morning Symposia 10</b> <b>T2: Immune Cells &amp; Inflammation</b> <i>Chairs: Jim Harris &amp; Barbara Rolfe</i>	<b>Morning Symposia 11</b> <b>T3: Rheumatology, Dermatology &amp; Fibrosis</b> <i>Chairs: Tom Wynn &amp; Sarah Jones</i>	<b>Morning Symposia 12</b> <b>T3: Vascular Biology</b> <i>Chairs: Denuja Karunakaran &amp; Claudine Bonder</i>
<b>Room</b>	<b>Parkside Ballroom 1</b>	<b>C3.3</b>	<b>C3.4 &amp; C3.5</b>	<b>C3.6</b>
	<i>Oral Presentations (15 minutes)</i>			
11:00 – 11:15	Sensory Neurons Respond to Influenza Virus Infection and Alter Pulmonary Inflammation <b>Kirsty Short</b> <i>University of Queensland, Australia</i>	Pro-inflammatory macrophages impair responses to acute muscle injury in the elderly <b>Connie Jackaman</b> <i>Curtin Health Innovation Research Institute, Australia</i>	Evolution of Pathogenic Autoantibody by Lymphoma Mutations in Rogue B Cell Clones <b>Joanne Reed</b> <i>Garvan Institute of Medical Research, Australia</i>	Effect of Modulation of the Oxidative Stress Regulator Nrf2 on the NLRP3-Inflammasome, Macrophage Cytokine Production and Vascular Inflammation in Diabetic Mice: Therapeutic and Genetic Studies. <b>Judy de Haan</b> <i>Baker Heart and Diabetes Institute, Australia</i>
11:15 – 11:30	Cholinergic regulation of bone marrow vascular microenvironment influences hematopoietic stem cell mobilization <b>Andrew Murphy</b> <i>Baker Heart And Diabetes Institute, Australia</i>	Autocrine type I interferon induces the first 'break' in the TCA cycle of LPS-stimulated M1 macrophages <b>Andrew Fleetwood</b> <i>University of Melbourne, Australia</i>	Proteotoxic stress and Inflammation, a study on Proteasome-Associated Autoinflammatory Syndrome <b>Sophia Davidson</b> <i>Walter And Eliza Hall Institute For Medical Research, Australia</i>	Regulation of cellular cholesterol homeostasis modulates macrophage VEGF-C to promote efficient lymphatic drainage. <b>Hwee Ying Lim</b> <i>National University of Singapore, Singapore</i>
11:30 – 11:45	CD8+ T lymphocytes contribute to the development of neovascularization in ischemic retinopathy <b>Devy Deliyanti</b> <i>Monash University, Australia</i>	Uncovering new roles for macrophage migration inhibitory factor (MIF) in inflammation and cell biology <b>James Harris</b> <i>Monash University, Australia</i>	Who is the culprit? Characterization of the IL-17 producing cells in Axial Spondyloarthritis <b>Nicolas Rosine</b> <i>Hopital Cochin, France</i>	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. <b>Francesco Squadrito</b> <i>University of Messina, Italy</i>
	<i>Flash Talks (5 minutes)</i>			
11:45 – 11:50	Sex-specific neuroprotection by inhibition of the Y-chromosome gene, SRY, in experimental Parkinson's disease <b>Vincent Harley</b> <i>Hudson Institute of Medical Research, Australia</i>	Anti-inflammatory mechanisms of PDE4 inhibitors: Rolipram induces macrophage polarization from inflammatory (M1) to healing promoting (M2) phenotype through MKP-1 phosphatase <b>Tiina Leppänen</b> <i>Tampere University, Finland</i>	Blockade of A Disintegrin and Metalloproteinase 17 (ADAM17)/IL-6 Trans-signalling axis Ameliorates Pancreatitis <b>Mohamed Saad</b> <i>Monash University - Hudson Institute, Australia</i>	Selective Targeting of the NLRP3-inflammasome to attenuate diabetes-associated atherosclerosis <b>Arpeeta Sharma</b> <i>Baker Heart and Diabetes Institute, Australia</i>
11:50 – 11:55	Vascular senescence: A new target for treatment of neuroinflammation associated with Alzheimer's disease <b>Ka Ka Ting</b> <i>Centenary Institute, Australia</i>	Ptpn6 Inhibits IL-1 Release from Neutrophils by Regulation of Caspase-8- and RIPK3/MLKL-Dependent Forms of Cell Death <b>Mary Speir</b> <i>Hudson Institute of Medical Research, Australia</i>	New Therapeutic Strategies Using Nanocarriers Containing Propionic Acid in Experimental Allergic Contact Dermatitis <b>Caroline Ferreira</b> <i>Universidade Federal De São Paulo, Brazil</i>	Transcriptional and functional monocyte reprogramming in patients with familial hypercholesterolemia persists despite treatment with statins <b>Siroon Bekkering</b> <i>Murdoch Childrens Research Institute, Australia</i>
11:55 – 12:00	The role of inflammasomes and IL-1beta in sterile CNS damage and regeneration <b>Yvonne Dombrowski</b> <i>Queen's University Belfast, United Kingdom</i>	Investigating redemption of self-reactive B cells in an unmanipulated polyclonal repertoire <b>Deborah Burnett</b> <i>Garvan Institute of Medical Research, Australia</i>	Adenosine A2a receptor blockade reduces fibrotic alterations through WNT/β-catenin signaling <b>Natasha Irrera</b> <i>University of Messina, Italy</i>	The glomerular Endothelial Surface Layer (ESL) impedes monocyte recruitment but promotes neutrophil recruitment to the glomerulus <b>Zhehao Paul Tan</b> <i>Monash University, Australia</i>
	<i>Oral Presentations (15 minutes)</i>			
12:00 – 12:15	Targeting platelets as a novel anti-inflammatory and neuroprotective approach for multiple sclerosis <b>Jacqueline Orian</b> <i>La Trobe University, Australia</i>	NK cells promote autoantibody-induced inflammatory arthritis through production of GM-CSF that is negatively regulated by the signalling suppressor CIS <b>Cynthia Louis</b> <i>Walter And Eliza Hall Institute of Medical Research, Australia</i>	Fibulin-1c regulates transforming growth factor-beta activation in tissue inflammation and fibrosis <b>Gang Liu</b> <i>University of Technology Sydney, Australia</i>	Therapeutic knockdown of RIPK1 gene expression reduces NF-κB inflammation in macrophages and prevents atherosclerosis lesion development <b>Denuja Karunakaran</b> <i>Institute For Molecular Biosciences, Australia</i>
12:15 – 12:30	An antisense drug against cytosolic Phospholipase A2α for treatment and prevention of the progression of neurodegenerative diseases <b>Rachel Levy</b> <i>Ben-Gurion University of the Negev, Israel</i>	Activation of alloreactive CD8 T cells in the hepatic allograft mediates their rapid clearance and is essential and sufficient to induce tolerance after liver transplantation <b>Patrick Bertolino</b> <i>Centenary Institute, Australia</i>	Diabetes-mediated macrophage-fibroblast crosstalk through exosome transfer of mRNA-stabilizing protein adversely affects cardiac inflammation and fibrosis <b>Prasanna Krishnamurthy</b> <i>University of Alabama at Birmingham (UAB), United States</i>	Expression of the interleukin-3/receptor complex by breast cancer cells promotes vascular mimicry via a PI3K-dependent mechanism and is associated with poor outcome <b>Claudine Bonder</b> <i>Centre For Cancer Biology, Australia</i>
12:30 – 13:30	<b>Lunch   Exhibition, The Gallery</b>			
13:30 -15:30	<b>Afternoon Symposia 7</b> <b>T1: Infectious Diseases</b> Sponsored by Paradigm Pharmaceuticals <i>Chairs: Phil Hansbro &amp; Lisa Ng</i>		<b>Afternoon Symposia 8</b> <b>T2: Immune Tolerance</b> Supported by IRA <i>Chairs: Lisa Schopf &amp; Aaron Winkler</i>	<b>Afternoon Symposia 9</b> <b>T3: Organ-specific Inflammation</b> <i>Chairs: Hiroshi Takayanagi &amp; Michele Grimbaldston</i>
<b>Room</b>	<b>C3.3</b>		<b>C3.4 &amp; C3.5</b>	<b>C3.6</b>
13:30 – 14:00	Cellular and Molecular Mechanism of Arbovirus Pathogenesis: models to therapies <b>Lisa Ng</b> <i>Singapore Immunology Network (SigN), A*STAR, Singapore</i> Sponsored by Paradigm Pharmaceuticals		Treg and NK Cells: Guardians of Immune Homeostasis <b>Ethan Shevach</b> <i>Laboratory of Immune System Biology, United States</i>	The local microenvironment drives the identity of tissue-resident memory T cells <b>Laura Mackay</b> <i>University of Melbourne, Australia</i>
14:00 – 14:30	Understanding how viruses cause arthritis. <b>Suresh Mahalingam</b> <i>Griffith University, Australia</i>		Targeting Dendritic Cells for Antigen-specific Tolerising Immunotherapy in Autoimmune Disease <b>Ranjey Thomas</b> <i>University of Queensland, Australia</i>	UV radiation exposure, vitamin D and reduced progression of multiple sclerosis and autoimmunity <b>Prue Hart</b> <i>Telethon Kids Institute, Australia</i>
14:30 – 15:00	Metabolic control of innate immune interactions in fungal infections <b>Ana Traven</b> <i>Biomedicine Discovery Institute, Monash University, Australia</i>		<b>Francisco Quintana</b> <i>Ann Romney Center for Neurological Diseases, United States</i>	Transglutaminase 2: A protein crosslinking enzyme that drives renal fibrosis through changes in ECM homeostasis and TGFβ1 activation. <b>Tim Johnson</b> <i>UCB, United Kingdom</i>
15:00 – 15:30	Rp105 promotes mycobacteria-induced type I interferon responses <b>Antje Blumenthal</b> <i>University of Queensland Diamantina Institute, Australia</i>		Immunoregulation in glomerulonephritis as an archetype for autoimmune disease <b>Richard Kitching</b> <i>Monash University, Australia</i>	Bone destruction in arthritis and osteoimmunology <b>Hiroshi Takayanagi</b> <i>University of Tokyo, Japan</i>
15:30 – 16:00	<b>Afternoon Tea   Exhibition, The Gallery</b>			
16:00 – 17:00	<b>New Investigator   Parkside Ballroom 1</b> <i>Chairs: Graham Wallace, University of Birmingham &amp; Nathalie Vergnolle, Inserm</i>			
16:00 - 16:15	ICOSL.COMP: a powerful enhancer of anti-tumoral responses restored by immune checkpoint inhibition. <b>Amanda Sparkes</b> <i>Sunnybrook Research Institute, Canada</i>			
16:15 - 16:30	A multi-component toxin from Bacillus cereus activates the NLRP3 inflammasome <b>Anukriti Mathur</b> <i>Australian National University, Australia</i>			
16:30 - 16:45	Dampened NLRP3-mediated inflammation in bats <b>Matae Ahn</b> <i>Duke-NUS Medical School, Singapore</i>			
16:45 - 17:00	Leptin signaling impairs macrophage defense against Salmonella Typhimurium <b>Gokhan Cildir</b> <i>Centre For Cancer Biology, Australia</i>			
17:00 - 17:30	<b>IAIS Lifetime Achievement Award (30 min)   Parkside Ballroom 1</b> <i>Chairs: Graham Wallace, University of Birmingham &amp; Nathalie Vergnolle, Inserm</i>			
	Macrophages, inflammation and pain- a journey from concept to clinic <b>John Hamilton</b> <i>University of Melbourne, Australia</i>			
19:00 – 22:00	<b>Congress Dinner   Parkside Ballroom 2</b>			

**DAY FIVE | Thursday 19 September**

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