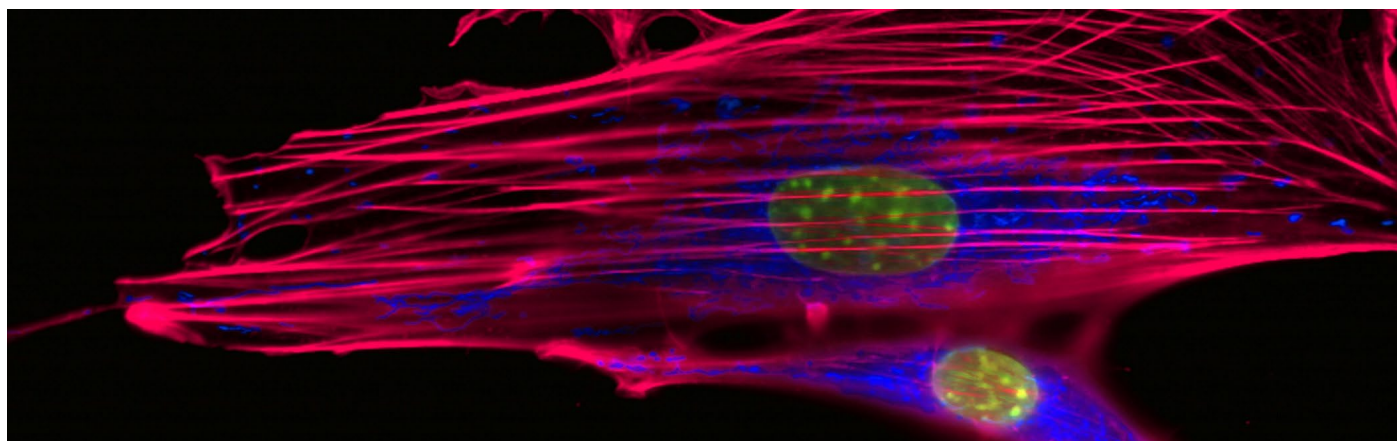




Australian Inflammation Centres 2022 Symposium

24-25 November 2022

Walter and Eliza Hall Institute

Thursday 24 November 2022

AEDT*	AEST*	
1:30	12:30	James Murphy (WEHI) Meeting welcome

SESSION 1: INFLAMMATORY CELL SIGNALING - 1

Thursday 24 November 2022

Session chairs: Tim Gottschalk (Hudson), Cass Harapas (WEHI)

AEDT*	AEST*	
1:40	12:40	Caroline Holley (IMB) A new inflammasome-associated alarmin that bridges innate and adaptive immunity
2:00	1:00	Ruby Dawson (Hudson) Inflammasome dependent and independent functions of AIM2 in gastric disease
2:15	1:15	Bas Hughes (WEHI) Redundancy and crosstalk in apoptotic and pyroptotic cell death drives IL-1 β release in XIAP deficiency
2:30	1:30	Natalia Pinello (Centenary/UTS) METTL3-dependent m6A RNA methylation regulates NLRP3 inflammasome activation
2:45	1:45	Annemarie Steiner (WEHI) Sting regulates inflammation in COPA syndrome
2:51	1:51	Hari Sivaraman (Hudson) Production and purification of inflammasome sensors using the baculovirus-insect cell protein expression system
2:57	1:57	Sophie Collard (WEHI) Dominant negative Otulin related autoinflammatory disease
3:03	2:03	Kunlun Li (WEHI) A novel exosite on the SOCS2-SH2 domain that enhances SH2 binding to phosphorylated ligands
3:13	2:13	Hani Hosseini Far (Hudson) iPS macrophages as models for inflammation signaling
3:20	2:20	Afternoon tea – Tapestry Lounge

*AEDT = Melbourne, Sydney; AEST = Brisbane

SESSION 2: PULMONARY INFLAMMATION & INFECTION

Thursday 24 November 2022

Session chairs: Ridhima Wadwha (Centenary/UTS), Phil Hansbro (Centenary/UTS)

AEDT*	AEST*	
3:40	2:40	Matt Johansen (Centenary/UTS) Understanding pathogenesis to develop effective treatments for COVID-19
4:00	3:00	Stephanie Bader (WEHI) Dissecting the role of programmed cell death in inflammation in SARS-CoV-2 infection <i>in vivo</i>
4:15	3:15	Kathleen McCaffrey (Hudson) ER stress drives ACOD1 signaling to restrict <i>Legionella pneumophila</i> replication
4:30	3:30	Shouya Feng (WEHI) Interferon-inducible guanylate-binding proteins contribute to bacterial-specific recognition and host inflammation
4:36	3:36	Chris Harpur (Hudson) Host-targeted treatment of severe influenza infection with human growth hormone-derived peptide compounds
4:42	3:42	Garrett Ng (Hudson) Paradoxical role of Gbp1 in <i>Burkholderia</i> lung infection
4:48	3:48	Lovisa Dousha (Monash CID) Alpha 1 antitrypsin as an anti-inflammatory agent
4:54	3:54	Ridhima Wadwha (Centenary/UTS) Mitochondrial dysfunction and immunometabolism in severe asthma
5:00	4:00	Shatarupa Das (Centenary/UTS) Mitochondrial dysfunction and its modulation as a treatment for COPD
5:06	4:06	Jessica von Pein (IMB) Single-cell RNA sequencing to characterise the macrophage zinc toxicity response against <i>E. coli</i> infection
5:15		In person networking session – Tapestry Lounge

SESSION 3: INFLAMMATORY CELL SIGNALING - 2

Friday 25 November 2022

Session chairs: Andre Samson (WEHI), Kaustav Das Gupta (IMB)

AEDT*	AEST*	
9:00	8:00	Joanne Hildebrand (WEHI) Gain or Loss of Necroptosis Function, Context = Consequence
9:20	8:20	Rebecca Ambrose (Hudson) Host responses to multidrug resistant bacterial pathogens
9:35	8:35	Nicky de Weerd (Hudson) Type I and III IFN cross talk in antiviral signaling
9:50	8:50	Holly Anderton (WEHI) The role of necroptosis in skin inflammation
9:56	8:56	Andrew Sawyer (Centenary/UTS) Single-cell spatial biology approaches to define the heterogeneity of granulomas in human TB lung tissue

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AEDT*	AEST*	Session 3: Inflammatory Cell Signaling
10:02	9:02	Deepagan Gopal (WEHI) Lipid nanoparticle technology to nullify cell death signaling
10:08	9:08	Farzaneh Shojaee (WEHI) The role of BET proteins in cell death and inflammation-associated diseases
10:14	9:14	Rishika Abrol (IMB) HDAC7: The master regulator of immunometabolic responses in macrophages
10:20	9:20	Farhana Afroz (IMB) Unravelling mechanisms and functions of TLR-inducible mitochondrial fission in macrophages
10:26	9:26	Kinga Dusszyk (IMB) Extrusion of apoptotic cells limits epithelial inflammation
10:32	9:32	Morning tea – Tapestry Lounge

SESSION 4: INFLAMMATION OF THE DIGESTIVE TRACT

Friday 25 November 2022

Session chairs: Cristina Giogha (Hudson), Madeleine Wemyss (Hudson)

AEDT*	AEST*	
11:00	10:00	Mohamed Saad (Hudson) The ADAM17 protease in pancreatitis
11:20	10:20	Aysha Al-Ani (WEHI) NEOMAP study of necroptosis in IBD
11:35	10:35	Annalicia Vaughan (Centenary/UTS) Novel roles and potential for the therapeutic manipulation of the gut/lung axis in respiratory disease
11:50	10:50	Jiyi Pang (WEHI) iNOS deficiency in IBD pathology revealed through organoid studies
11:56	10:56	Alice West (Hudson) Inflammasomes in gastric cancer
12:02	11:02	Eve de Geus (Hudson) Epithelially expressed IFN epsilon protects against colitis
12:08	11:08	Vik ven Eng (Hudson) RIPK1/3 regulate mucosal immunity against bacterial gut infection
12:14	11:14	Ben Weger (IMB) The role of the circadian clock in liver disease
12:20	11:20	Lunch – Tapestry Lounge

SESSION 5: AUTOIMMUNITY & INFLAMMATION

Friday 25 November 2022

Session chairs: Jared Coombs (IMB), Nicole Campbell (Hudson)

AEDT*	AEST*	
1:20	12:20	Kim O'Sullivan (Monash CID) Reactive Oxygen Species inhibition attenuates NET formation and inflammation in MPO-ANCA vasculitis
1:40	12:40	Joyce Chiu (Centenary/UTS) Mechano-redox control of Mac-1 de-adhesion from ICAM-1 by protein disulfide isomerase promotes directional movement under flow

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AEDT*	AEST*	Session 5: Autoimmunity & Inflammation
2:00	1:00	Kate Martin (WEHI) CD98 – a novel regulator of inflammation in rheumatoid arthritis
2:15	1:15	Lina Daniel (Centenary/UTS) Chronic inflammation modulates stromal structure and T cell activating function of lung-draining LN
2:30	1:30	Jerry Huang (Centenary/UTS) Role of intercellular cholesterol transport in vascular cell inflammation
2:36	1:36	Nicole Campbell (Hudson) Interferon epsilon limits ovarian cancer metastasis via regulation of peritoneal immune cells
2:42	1:42	Stephanie Huang (Monash CID) Mitochondrial-targeted antioxidant ameliorates lymphocyte extracellular traps and inflammation in MPO-ANCA vasculitis
2:48	1:48	Josh Bourne (Monash CID) Immunomodulatory roles of platelets
2:54	1:54	Helen Mostafavi (IMB) Investigating COVID-19-induced vascular dysfunction using a novel <i>in vitro</i> triple culture model
3:00	2:00	Afternoon tea – Tapestry Lounge

SESSION 6: TRANSLATIONAL RESEARCH IN INFLAMMATION

Friday 25 November 2022

Session chairs: Josh Ooi (Monash CID), Charlotte Slade (WEHI)

AEDT*	AEST*	
3:30	2:30	Sarah Jones (Monash CID) Novel anti-inflammatory molecules from the glucocorticoid pathway
3:50	2:50	Angus Stock (WEHI) Causes and cures for vasculitis
4:05	3:05	Sabrina Sofia Burgener (IMB) Caspase-1 in non-alcoholic steatohepatitis
4:20	3:20	Julie Monk (Monash CID) Antigen-specific Tregs as therapeutics in SLE
4:26	3:26	Iolanda Miceli (Monash CID) Regulation of inflammatory signaling in SLE
4:32	3:32	Jared Coombs (IMB) Temperature directly regulates the activity of inflammasome mutants in auto-inflammatory disease
4:38	3:38	Arwaf Alharbi (Hudson) Developing therapeutic anti-inflammatory oligonucleotides
4:44	3:44	Rangi Kandane-Rathnayake (Monash CID) Association of treat-to-target endpoints with improved patient outcomes in SLE
4:50	3:50	Larisa Labzin (IMB) Innate sensing of viruses shapes inflammation

Friday 25 November 2022

AEDT*	AEST*	
4:56 – 5:00	3:56 – 4:00	Elizabeth Hartland (Hudson) Meeting close

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