

Australian Inflammation Centres 2023 Symposium

30–31 October 2023

Institute for Molecular Bioscience Auditorium
The University of Queensland

We thank Millennium Science for their
generous support for this symposium



Co-hosted with



Monday 30 October 2023

AEST ACDT AEDT

12:30pm 1:00pm 1:30pm **Meeting welcome** Kate Schroder, UQ

Session 1: Infection

CHAIRS: KATE SCHRODER (UQ), STEFAN MIEMCZYK (CENTENARY UTS)

12:35pm 1:05pm 1:35pm **Marcel Doerflinger WEHI**
Killing the silent killer – pro-apoptotic strategies to limit HTLV-1c infection in vivo

1:00pm 1:30pm 2:00pm **Matthew Sweet UQ**
Meddling with macrophage metabolism for anti-infective design

1:15pm 1:45pm 2:15pm **Rebecca Ambrose Hudson**
Modulation of macrophage signalling by invasive Salmonella infections

1:30pm 2:00pm 2:30pm **Stephan Brouwer UQ**
Detection of invasive *Streptococcus pyogenes* M1UK in Australia

1:45pm 2:15pm 2:45pm **Larisa Labzin UQ**
Inflammatory cell death: how macrophages sense neighbouring cell infection and damage

2:00pm 2:30pm 3:00pm **Kirsty Short UQ**
Innate immune training and viral infection

2:15pm 2:45pm 3:15pm **Afternoon tea** Auditorium foyer

Session 2: Mucosal and Tissue Inflammation

CHAIRS: ELIZABETH HARTLAND (HUDSON), ASHLEY MANSELL (HUDSON)

2:50pm 3:20pm 3:50pm **Stefan Miemczyk Centenary UTS**
COVID-19 and factors of the innate immune system

3:15pm 3:45pm 4:15pm **Andre Samson WEHI**
The where and when of necroptosis and why in IBD?

3:30pm 4:00pm 4:30pm **Snehlata Kumari UQ**
NF- κ B and stress signalling pathways in cytokine-mediated skin inflammation

3:45pm 4:15pm 4:45pm **James Hudson QIMR**
Chronic Inflammation at QIMRB and development of new anti-inflammatory drugs for cardiac disease

4:00pm 4:30pm 5:00pm **Mark Schembri UQ**
Antibiotic resistant superbugs – it's all about the clones!

4:15pm 4:45pm 5:15pm **Katharine Irvine UQ**
CSF1-driven expansion of tissue macrophages promotes liver regeneration and ameliorates fatty liver disease

4:30pm 5:00pm 5:30pm **Poster and networking session** Auditorium Foyer

6:00pm – – **Informal dinner** Thai at Home, 224 Hawken Drive St Lucia

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Session 3: Signaling 1 – Cell Death

CHAIRS: JAMES MURPHY (WEHI), SABRINA BURGNER (UQ)

8:30am	9:00am	9:30am	Elizabeth Hartland Hudson Legionella and the macrophage ER stress response
8:55am	9:25am	9:55am	Kha Phan WEHI/LaTrobe Infected cell-derived apoptotic bodies: the “dead giveaway” for SARS-CoV-2 entry and inflammation in macrophages
9:10am	9:40am	10:10am	John Silke WEHI Cell death, inflammation and wound healing
9:25am	9:55am	10:25am	Kate Stacey UQ MyD88 conformation as an on/off switch for inflammatory signalling
9:40am	10:10am	10:40am	Panxue (Shelly) Wang WEHI The membrane is a new point of regulation of TNFR1 activation: insight into a TRAPS-related mutation
9:55am	10:25am	10:55am	Cameron Skinner Millennium Science From Scenery to Science: Agilent Cytation Redefines Imaging Excellence!
10:10am	10:40am	11:10am	Morning tea Auditorium foyer

Session 4: Autoimmunity and Inflammation

CHAIRS: MICHAEL HICKEY (MONASH CID), MALVINA PIZZUTO (UQ)

10:30am	11:00am	11:30am	Yi Tian Ting Monash CID Targeted regulatory T cell therapy for rheumatoid arthritis
10:55am	11:25am	11:55am	Hamidreza Sadegh Centenary UTS Investigation of the role of the gut microbiome in the progression of Cerebral Cavernous Malformation (CCM) on experimental mice model
11:10am	11:40am	12:10pm	Cameron Bastow Monash CID MEGADOSE ascorbate therapy in sepsis
11:25am	11:55am	12:25pm	Sunil Sapkota Hudson 3-base long 2'O-Methyl oligonucleotides are potent TLR7 and TLR8 modulators
11:40am	12:10pm	12:40pm	Poh-Yi Gan Monash CID Immunomodulatory kidney-targeted nanomedicine to treat glomerular diseases
11:55am	12:25pm	12:55pm	Anne-Sophie Bergot UQ Gut and joint inflammation develop due to interplay of IL-23, probiotic and pathobiont bacteria in spondyloarthropathy
12:10pm	12:40pm	1:10pm	Lunch Auditorium foyer

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Session 5: Inflammation-associated Cancer

CHAIRS: BRENDAN JENKINS (SAiGENCI), DIVYA RAMNATH (UQ)

12:55pm 1:25pm 1:55pm **Lorraine O'Reilly WEHI**
Optimising new targeted therapies for head and neck cancers

1:20pm 1:50pm 2:20pm **Mark Bunting SAiGENCI**
NF-kappa B and its regulation in breast cancer inflammation

1:35pm 2:05pm 2:35pm **Nicole Campbell Hudson**
Interferon control of immune responses in ovarian cancer

1:50pm 2:20pm 2:50pm **Marius Dannappel Hudson**
Mediator kinases as transcriptional regulators with functions in cancer and immunity

2:05pm 2:35pm 3:05pm **Ruby Dawson Hudson/SAiGENCI**
Investigation of the roles of DNA sensors in Helicobacter-triggered gastric inflammation-associated tumourigenesis

2:20pm 2:50pm 3:20pm **Ka Yee Fung WEHI**
Unravelling a complex conversation within the tumour microenvironment of pancreatic cancer

2:35pm 3:05pm 3:35pm **Afternoon tea Auditorium foyer**

Session 6: Signaling 2 – Cytokines

CHAIRS: JAMES HUDSON (QIMR), KAROLINE RAVEN (UQ)

2:55pm 3:25pm 3:55pm **Antje Blumenthal UQ**
New perspectives on the molecular regulation of TLR4 functions

3:20pm 3:50pm 4:20pm **Mohamed Saad Hudson/SAiGENCI**
Investigating the role of proteases in acute pancreatitis

3:35pm 4:05pm 4:35pm **Nicky de Weerd Hudson**
Atypical interferon receptor signaling in inflammation

3:50pm 4:20pm 4:50pm **Karen Doggett WEHI**
SOCS1 deletion enhances anti-tumour immune responses

4:05pm 4:35pm 5:05pm **Sumaira Hasnain UQ**
Mucosal epithelial cells: more than just barrier cells

4:20pm 4:50pm 5:20pm **Timothy Mercer UQ BASE**
A practical guide for using mRNA technologies in inflammation research

4:35pm 5:05pm 5:35pm **Meeting close Michael Hickey, Monash**