



Cell Signalling and its Therapeutic Implications

Wednesday 17th May

15.00 Registration opens

17.00 Plenary & presentation of the Martin Lackmann Award for Translational Research

SPONSORED BY: MONASH BDI
CHAIR: Roger Daly

Fabienne Mackay
“Targetting the BAFF receptor TACI in Chronic Lymphocyte Leukaemia”

18.00 Conference dinner

Thursday 18th May

8.45 Cancer and Metabolism

SPONSORED BY: MONASH BIOCHEMISTRY & MOLECULAR BIOLOGY
CHAIR: Tony Tiganis

8:45 **Andrew Cox**

The Hippo-Yap pathway regulates anabolic glucose metabolism to support organ growth

9:10 **Mark Febbraio**

The engineered designer cytokine IC7 protects against obesity-induced metabolic disease

9:35 **Nicholas Clemons**

Mutant p53 impairs glutathione synthesis via suppression of the glutamate/cysteine exchanger, xCT: a potential Achilles heel.

10:00 Short talk: **Lorraine O'Reilly**

NF- κ B1 loss incites gastric cancer by immune inflammatory mechanisms

10.15 Morning tea

10:45 Therapeutic targeting of inflammation/immunotherapy

SPONSORED BY: IAN POTTER FOUNDATION
CHAIR: Irina Caminschi

10:45 **International: Jen Morton**

“Targeting Myeloid Cell Signalling - Therapeutic Strategies for Pancreatic Cancer”

11:25 **Phil Darcy**

New strategies for enhancing CAR T cell therapy for cancer

- 11:50 **Kate Stacey**
TLR4 antagonists in treatment of dengue virus infection
- 12:15 Short talk: **David Gallego-Ortega**
Novel immunotherapy approaches in luminal ER+ breast cancer

12.30 Lunch

13.30 Inflammation and pathogenesis

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CHAIR: Richard Berry

- 13:30 **Ashley Mansell**
Temporal targeting of the NLRP3 inflammasome demonstrates the therapeutic pitfalls of good and bad inflammation during viral challenge
- 13:55 **Ilia Voskoboinik**
Cytotoxic lymphocyte deficiency and susceptibility to cancer
- 14:20 **Sandra Nicholson**
SOCS protein regulation of NK cell-mediated tumor immunity
- 14:45 Short talk: **Philippe Boulliet**
Complex regulation of TNF expression through its 3' untranslated region
- 15:00 Short talk: **Christian Doerig**
Signalome-wide assessment of host cell response to intracellular pathogens: a source of novel targets for anti-infectives

15.15 Afternoon tea

15.45 Cellular regulators of inflammation:

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CHAIR: Sandra Nicholson

- 15:45 **Stuart Pitson**
Targeting the sphingosine kinases in inflammation and cancer
- 16:10 **Meredith O'Keeffe**
Dendritic cells & interferon-lambda
- 16:35 **Colby Zaph**
Epigenetic Regulation of Immunity and Inflammation
- 17:00 Short talk: **Michael Gantier**
The importance of the cGAS pathway in DNA damage-driven inflammation
- 17:15 Short talk: **Andrew Ellisdon**
Homodimerization attenuates the anti-inflammatory activity of interleukin-37

17.30 Poster Session & Wine Tasting

19.00 BBQ dinner

Friday 19th May

8:30 Inflammation and cancer progression/metastasis

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CHAIR: Mike Rogers

- 8:30 **Erica Sloan**
Targeting a neural-inflammatory signalling axis to stop metastasis

- 8:55 **Belinda Parker**
Turning up the heat on breast cancer to prevent metastasis
- 9:20 **Matthias Ernst**
Mast cells and Macrophages as therapeutic target for gastrointestinal cancers
- 9:45 Short talk: **Mary Vail**
Therapeutic targeting or modulation of EphA3 in the inflammatory tumor microenvironment inhibits cancer growth
- 10:00 Short talk: **Claire Vennin**
Transient tissue priming via ROCK inhibition uncouples pancreatic cancer progression, sensitivity to chemotherapy, and metastasis

10.15 Poster Prize Announcement followed by morning tea

10:45 Signaling/Transcription and Inflammation

SPONSOR: BMG LABTECH

CHAIR: Steven Gerondakis

- 10:45 **Shaun McColl**
A new paradigm in chemokine receptor-mediated regulation of the type 17 immune response
- 11:10 **Paul Hertzog**
Regulating the inflammatory actions of type I interferons: from receptors to ISGs
- 11:35 **John Silke**
Beware the MLKL, the jaws that bite: Uffish thoughts on the role of necroptosis and inflammation
- 12:00 Short talk: **Martin Stone**
Key Determinants of Differential Signalling at Chemokine Receptors
- 12:15 Short talk: **Ashleigh Morgan**
Targeting the Src/JAK/STAT3 signalling pathway: A novel and promising therapeutic strategy for pancreatic cancer

12.30 Lunch

13.30 Inflammation & cell death

SPONSOR: IAN POTTER FOUNDATION

CHAIR: Lan Nguyen

- 13:30 Short talk: **Thomas Naderer**
Preventing inflammation and infections by inducing apoptosis
- 13:45 **Marc Pellegrini**
Understanding and harnessing endogenous TNF's therapeutic potential
- 14:10 **Ben Kile**
Caspases, mitochondrial DNA and DAMP signalling
- 14:30 **International: Manolis Pasparakis**
"The interplay between IKK/NF- κ B and RIPK1 signalling in cell death and inflammation"

15.10 Closing remarks

15.30 Conference end and farewell

15.45 Bus departure

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