

## MONDAY SPECIAL INTEREST GROUP WORKSHOPS

### PROGRAM AT A GLANCE

MONDAY 27 NOVEMBER 2017, SPECIAL INTEREST GROUP WORKSHOPS				
09:00 – 10:20	Postgraduate Workshop <i>(Meeting Room P6)</i>	Tumour Immunology Workshop <i>(Meeting Room P8)</i>	Joint Mucosal/Infection and Immunity Session: ILC Symposium <i>(Meeting Room P9)</i>	
10:20 – 10:50	Morning Tea <i>(Plaza Auditorium Foyer)</i>			
10:50 – 12:30	Postgraduate Workshop <i>(Meeting Room P6)</i>	Tumour Immunology Workshop <i>(Meeting Room P8)</i>	Mucosal Immunology Workshop <i>(Meeting Room P7)</i>	Infection and Immunity Workshop <i>(Meeting Room P9)</i>
12:30 – 13:30	Lunch <i>(Plaza Auditorium Foyer)</i>			
13:30 – 14:35	Postgraduate Workshop <i>(Meeting Room P6)</i>	Tumour Immunology Workshop <i>(Meeting Room P8)</i>	Mucosal Immunology Workshop <i>(Meeting Room P7)</i>	Infection and Immunity Workshop <i>(Meeting Room P9)</i>
14:35 – 15:00	Afternoon Tea <i>(Plaza Auditorium Foyer)</i>			
15:00 – 16:10	Postgraduate Workshop <i>(Meeting Room P6)</i>	Tumour Immunology Workshop <i>(Meeting Room P8)</i>	Joint Mucosal/Infection and Immunity Session <i>(Meeting Room P9)</i>	

### MUCOSAL IMMUNOLOGY WORKSHOP

The Mucosal Immunology workshop focuses on how the immune system functions at the barrier between host and environment and includes a wide variety of topics including allergy, autoimmunity, inflammation, cancer, immunity, and infectious diseases of the mucosal tissues. This year's MISIG will particularly focus on the mucosal immunity of the Gastrointestinal, Reproductive and Respiratory tracts. This year's program will include a joint session with a focus on innate lymphoid cells (ILCs) in mucosal immunity, and invited presentations from world-renowned Immunologists Professor Jean-Laurent Casanova and Professor Maria Rescigno. The MISIG workshop is sponsored by the international Society of Mucosal Immunology and will award \$500US to the best oral presentation given by an early-mid career researcher.

Sponsored by



SOCIETY FOR  
MUCOSAL IMMUNOLOGY

### INFECTION AND IMMUNITY WORKSHOP

This year's Infection and Immunity Special Interest Group Workshop will feature outstanding invited international (Maria Rescigno) and national speakers (Jaclyn Pearson, Andreas Kupz, Thomas Naderer), a number of talks selected from abstracts, and a special innate lymphoid cell mini-symposium held jointly with the Mucosal Immunology Special Interest Group. The ILC mini-symposium (organized by Fernando Souza-Fonseca-Guimaraes and Nick Huntington, and sponsored by Miltenyi) features Joseph Sun and several outstanding early to mid-career researchers from around Oz.

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AID  
Australian Infectious Diseases research centre  
The University of Queensland  
QIMR Berghofer

&



QIMR Berghofer  
Medical Research Institute

### JOINT MUCOSAL/INFECTION AND IMMUNITY SESSION: ILC SYMPOSIUM

9:00AM - 10:20AM

P9

Chair: Yulong Gao, on behalf of Fernando Guimaraes & Nick Huntington

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9:00 AM Introduction

9:05 AM **Joseph Sun**  
ILC1 confer early host protection during viral infection

9:35 AM **Susanna Ng**  
Rapid loss of group 1 innate lymphoid cells during blood stage Plasmodium infection

9:50 AM **Iona Schuster**  
Resident and Trafficking Group 1 Innate Lymphoid Cells in Viral Infection

10:05 AM **Rebecca Delconte**  
CIS is a potent checkpoint in NK cell-mediated Immunity

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**MORNING TEA**

10:20AM - 10:50AM

Plaza Auditorium Foyer

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**MUCOSAL IMMUNOLOGY WORKSHOP**

10:50AM - 12:30PM

P7

Chairs: Simon Barry & Nicholas West

10:50 AM **Paraic Cuiv**

A brief history of known unknowns: Gut microbiota derived small molecule and peptide bioactives as extrinsic regulators of mucosal inflammatory tone and homeostasis in inflammatory bowel disease

11:10 AM **Laurence Macia**

Impact of dietary fibre on western lifestyle diseases

11:30 AM **Ran Wang**

IL23 secretion from IEC to improve intestinal barrier integrity in IBD

11:45 AM **Patrick Hughes**

Multiple luminal factors impair epithelial barrier function and activate colonic sensory nerves in Ulcerative Colitis

12:00 PM **Alison Carey**

Differential immune responses between animals that clear Group B Streptococcal genital infection and those that remain colonised

12:15 PM **Holly Groome**

Macrophage depletion affects placental labyrinth vascularisation independent of fetal alloantigens

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**INFECTION AND IMMUNITY WORKSHOP**

10:50AM - 12:30PM

P9

Chairs: Katharina Ronacher & Nicholas King

10:50 AM **Jaclyn Pearson**

Bacterial evasion of host cell death signaling pathways

11:10 PM **Andreas Kupz**

Combating the re-emergence of tuberculosis with new vaccine strategies

11:30 PM **Luca Hensen**

Novel CD8+ T-cell targets for protection of Indigenous Australians against severe influenza disease

11:45 PM **Thomas E Schultz**

Distinct characteristics of the RP105-agonistic mycobacterial 19 kDa lipoprotein and RP105-mediated macrophage activation

12:00 PM **Martha Cooper**

Integrative analysis of miRNA and mRNA response to human malaria infection using systems immunology

12:15 PM **Kaustav Das Gupta**

Histone deacetylase 7 is an essential component of macrophage-mediated host defence, promoting phagocytosis, reactive oxygen species production and bacterial clearance

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**LUNCH**

12:30PM - 1:30PM

Plaza Auditorium Foyer



## MUCOSAL IMMUNOLOGY WORKSHOP

1:30PM - 2:35PM

P7

Chairs: Phil Hansbro & Rhiannon Werder

- 1:30 PM **Severine Navarro**  
Regulation of mucosal inflammation with hookworms
- 1:50 PM **Anya Jones**  
The underlying mechanisms during acute viral bronchitis in infants/pre-school children - Chlorinated
- 2:05 PM **Pengcheng Zhou**  
Flame retardant exacerbates airway inflammation through type 2 immune response -
- 2:20 PM **Jennifer Simpson**  
Pneumovirus infection induces necroptosis in human bronchial epithelial cells and in a pre-clinical model of bronchiolitis

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## INFECTION AND IMMUNITY WORKSHOP

1:30PM - 2:35PM

P9

Chairs: Lisa Connor & Helen Farrell

- 1:30 PM **Thomas Naderer**  
Preventing inflammation and infections by inducing apoptosis
- 1:50 PM **Le Son Tran**  
NOD1 sensing of Helicobacter pylori infection mediates processing of pro-interleukin-18 in gastric epithelial cells to maintain tissue homeostasis
- 2:05 PM **Kylie M Quinn**  
Age-related decline in primary CD8 T cell responses is associated with the development of senescence in virtual memory CD8 T cells
- 2:20 PM **Joanna R Kirman**  
Innate lymphoid cell response to BCG vaccination in mice

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## AFTERNOON TEA

2:35PM - 3:00PM

Plaza Auditorium Foyer

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## JOINT MUCOSAL/INFECTION AND IMMUNITY SESSION

3:00PM - 4:10PM

P9

Chairs: Michael McGuckin & Natkunam Ketheesan

- 3:00 PM **Ben Finnin**  
ILCs- Panning for gold
- 3:10 PM **Jean-Laurent Casanova**  
Life-threatening infectious diseases of childhood: single-gene inborn errors of immunity?
- 3:40 PM **Maria Rescigno**  
Interaction of the mucosal immune system with the microbiota

## TUMOUR IMMUNOLOGY WORKSHOP

This year's Tumour Immunology Group Workshop will include 5 sessions ranging from basic understandings of the cancer – immune system interface through to translational models and novel immunotherapies. It will feature various renowned invited international (Yuting Ma) and national speakers, as well as a number of talks by students and early-to mid-career researchers selected from abstracts. The prestigious Gordon Ada Lecture will be given by Phil Darcy from Peter MacCallum Cancer Centre, Melbourne.

Sponsored by  QIMR Berghofer  
Medical Research Institute &  TRIO  
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AUSTRALIA

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### TUMOUR IMMUNOLOGY WORKSHOP SESSION I: CELLULAR STRESS RESPONSES AND TUMOUR IMMUNOGENICITY

9:00AM - 10:20AM

P8

Chairs: Steve Mattarollo & Sarah Young

9:00 AM Welcome

9:05 AM **Yuting Ma**  
The renaissance of antineoplastic immunity from stress response

9:50 AM **Indrajit Das**  
Distinct roles for CD155 in control of tumor growth and metastasis

10:05 AM **Christian Bryant**  
A blood dendritic cell vaccine expands anti-tumour T cell responses in AML

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### MORNING TEA

10:20AM - 10:50AM

Plaza Auditorium Foyer

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### TUMOUR IMMUNOLOGY WORKSHOP SESSION II: TUMOUR MICROENVIRONMENT AND IMMUNOSUPPRESSION/EVASION

10:50AM - 11:40AM

P8

Chair: Graham Leggatt

10:50 AM **Delia Nelson**  
Cancer, chemotherapy and the ageing immune system

11:10 AM **Simone Park**  
Skin-resident memory T cells form in the melanoma microenvironment and mediate tumour immune surveillance

11:25 AM **Sarah Lauder**  
PI3K- $\delta$  specific inhibition of regulatory T cells controls metastatic breast cancer via the development of specific anti-tumour T cells

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### TUMOUR IMMUNOLOGY WORKSHOP SESSION III: NEXT GENERATION TUMOUR IMMUNOLOGY

11:40AM - 12:30PM

P8

Chair: Jane Oliaro

11:40 AM **Tatyana Chtanova**  
Tracking immune cells in cancer using photoconversion and two-photon microscopy

12:00 PM **Oscar Haigh**  
Enhanced activation of human CD141+ and CD1c+ dendritic cells in vivo with combined TLR3 and TLR7/8 ligation

12:15 PM **Vignesh Narasimhan**  
Organoid models to investigate novel treatment options for peritoneal metastases from colorectal cancer

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### LUNCH

12:30PM - 1:30PM

Plaza Auditorium Foyer

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**TUMOUR IMMUNOLOGY WORKSHOP SESSION IV: CELLULAR ENGINEERING AND ADOPTIVE IMMUNOTHERAPY**

1:30PM - 2:35PM

P8

Chair: James Wells

- 1:30 PM     **Phil Darcy**  
The development of CAR T cell therapy: from the bench to the clinic
- 2:15 PM     **Paul Beavis**  
Targeting local tumour immunosuppression to enhance chimeric antigen receptor T Cell efficacy in solid cancers
- 2:25 PM     **Jonathan Chee**  
Silencing of immunogenic antigens during adoptive cell therapy is an acquired resistance mediated by complex epigenetic mechanisms

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**AFTERNOON TEA**

2:35PM - 3:00PM

Plaza Auditorium Foyer

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**TUMOUR IMMUNOLOGY WORKSHOP SESSION V: TRANSLATIONAL IMMUNOTHERAPY**

3:00PM - 4:10PM

P8

Chair: Mark Smyth

- 3:00 PM     **Maya Kansara**  
Targeting the immune system in osteosarcoma
- 3:20 PM     **Fiona Simpson**  
CESTEM-1 clinical trials: using dynamin inhibitors to reverse resistance to monoclonal antibody therapy
- 3:35 PM     **Mainthan Palendira**  
IL-15 dependent melanoma-resident CD8+ T cell numbers predict patient survival and outcome of anti-PD1 therapy
- 3:50PM     **Rebecca Faleiro**  
Therapeutic implication of Programmed cell death-1 ligand 2 (PD-L2) against Melanoma

## POSTGRADUATE WORKSHOP

This year's Postgraduate workshop is focused on career development. Professor Janet Davies (QUT) and Professor Chris Parish (ANU) will discuss their research, career path, and what they look for when hiring scientific staff. Ms Stephanie Bonson (Postgraduate Career Counsellor, QUT) will discuss how to tackle the job market, including job search strategies and improving your CV. An interactive career panel session with academic, research, industry, science education and communication expertise will discuss: A PhD in immunology-what is it good for? The workshop will finish with advice and tips from Professor Rajiv Khanna (QIMR Berghofer Institute for Medical Research) and Professor Greg Woods (University of Tasmania) on your next grant and fellowship applications.

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### POSTGRADUATE WORKSHOP SESSION 1: MY RESEARCH CAREER

9:00AM - 10:20AM

P6

Will discuss their scientific background and research careers, provide insight into what they look for when hiring staff, advice for a research-based career. Followed by Q and A.

**Janet Davies**, Queensland Institute of Technology

**Chris Parish**, Australian National University

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### MORNING TEA

10:20AM - 10:50AM

Plaza Auditorium Foyer

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### POSTGRADUATE WORKSHOP SESSION 2: TACKLING THE JOB MARKET (INTERACTIVE SESSION)

10:50AM - 12:30PM

P6

Advice on how to go about finding a job after your PhD, how to write a CV (what do people look for?). Job search strategies.

**Stephanie Bonson**, Postgraduate Career Counsellor (QUT), Registered Psychologist

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### Lunch

12:30PM - 1:30PM

Plaza Auditorium Foyer

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### POSTGRADUATE WORKSHOP SESSION 3: CAREER PANEL- WHAT IS A PHD GOOD FOR? (INTERACTIVE SESSION)

1:30PM - 2:35PM

P6

Panel comprised of: academic, science communicator, patent attorney, industry-based researcher, science educator.

**Alejandro Lopez**, Program Director, Medical Science, School of Natural Sciences, Griffith University

**Phil Ellery**, Business Manager, Institute for Glycomics, Griffith University, Advance QLD Founders' Fellowship recipient and Founder of EPRI

**Ezequiel Balmori Melian**, SparQ-ed Teacher, Queensland Academies

**Ali Zaid**, Research Fellow and 2016 QLD Young Tall Poppy awardee, Institute for Glycomics, Griffith University

**Declan McKeveney**, Principal, Fisher Adams Kelly Callinans, Patent and Trade Mark Attorneys

**Emma Ceccato**, Science Communications Officer, QIMR Berghofer Medical Research Institute

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### AFTERNOON TEA

2:35PM - 3:00PM

Plaza Auditorium Foyer

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### POSTGRADUATE WORKSHOP SESSION 4: GRANT AND FELLOWSHIP WRITING

3:00PM - 4:10PM

P6

Tips and Advice to help you with your next NHMRC and ARC applications.

**Professor Rajiv Khanna**, QIMR Berghofer Institute of Medical Research

**Professor Greg Woods**, University of Tasmania