

NAME 18

NSW Airways Meeting
Thursday, 10 and Friday, 11 October 2024
Centenary Institute



Hosts



Platinum sponsor



Silver sponsor



Unrestricted Medical Grant recipient

Together with



8:00 AM Registration Registration, tea and coffee

8:45 AM Welcome Professor Phil Hansbro - Director, Centenary UTS Centre for Inflammation
A message from our Sponsors and Partners

Plenary 1: Chair - Professor Phil Hansbro

9:00-9:45am **Professor Wisia Wedzicha:** Early COPD and exacerbations in early COPD

9:45-10:30am **Professor Leopoldo Segal:** Role of lower airway dysbiosis in COPD and lung cancer

10:30 - 11:00 AM Morning tea break

COPD and Asthma: Chairs - Drs Elinor Hortle and Annalicia Vaughan (Centenary UTS Centre for Inflammation)

11:00-11:30am **Professor Paul S. Foster:** Identification and characterisation of CD4+ T helper 22 cells

11:30-11:55am **Dr David Ross Darley:** Understanding lung allograft dysfunction phenotypes: Novel pathophysiologic and proteomic approaches

11:55-12:20pm **Dr Gabrielle Belz:** Searching for the drivers of lung protection and immunopathology

12:20-12:45pm **Dr Peter Bell:** Immunology of Fibrosing Lung Disorders: Clinical Challenges and Unanswered Questions

12:45 -1:00pm **Jay Flack:** FeNO: Past, present and future applications

1:00-2:00 PM Lunch break

Infection: Chair - Dr Matt Johansen (Centenary UTS Centre for Inflammation)

2:00-2:25pm **Professor Warwick Britton:** Differential impact of adjuvants on the protective immunity of protein TB vaccines against lung M. tuberculosis infection

2:25-2:40pm **Professor Jamie Triccas:** New RSV Vaccines for Infants and the Elderly

2:40-3:00pm **Dr Claudio Counoupas:** Role of Alveolar Macrophages in Protection Against M. tuberculosis Induced by Intranasal CD40L Adjuvanted Vaccine.

3:00-3:15pm **Dr Anneliese Ashhurst:** Nasal protein-based vaccination with a TLR2-stimulating adjuvant induces potent protective immunity against SARS-CoV-2

3:15-3:30pm **Dr Erica Stewart:** Arming the airways: harnessing the pulmonary immune system for protection against respiratory infections

3:30-3:45pm **Guanshu Zhao:** Exploring the role of interferon epsilon in SARS-CoV-2 infections

3:45-4:00pm **Mitchell Spicer:** Changes to gene expression in response to SARS-CoV-2 viral infections

4:00-4:30 PM Afternoon tea break

4:30 PM Poster Pitch: Chair - Dr Tayyaba Sadaf (Centenary UTS Centre for Inflammation)

2 min/person, 1 slide.

Dr Sobia Idrees: A single-cell atlas of Air Liquid Interface (ALI) models to delineate respiratory diseases

Dr Saima Rehman: Role of omega 3 and omega 9 in COPD

Dr Jessica Stolp: A LOXL2 inhibitor that mediates powerful anti-fibrotic effects

Karl Hegarty: Investigating the prevalence of cachexia in respiratory disease

Tashfia Eqbal: Exploring the effects of low-dose PM2.5 exposure on pulmonary health

Rachael Rowntree: Determining if Hypercapnia has a genetic origin in patients with COPD

Luke Farrell: Leveraging the benefits of 2D-PAGE to analyse protein post translational modifications

Sam Gould: Investigating the pathogenesis of severe asthma using proteomics and mass spectrometry imaging techniques

A'qilah Banu Clarke: Establishing the gold-standard murine model of Idiopathic Pulmonary Fibrosis (IPF)

5:00 - 6:30 PM Poster session

7:00pm - late Conference Dinner

8:30 AM **Registration** **Registration, tea and coffee**

8:50 AM **Welcome** **Professor Phil Hansbro - Head, Centenary UTS Centre for Inflammation**

Plenary 2: Chair - Professor Phil Hansbro

9:00-9:45am **Professor Tom Wilkinson:** Mechanisms of asthma and COPD pathogenesis in humans

9:45-10:05am **Professor Peter Middleton :** Cystic Fibrosis in the 21st Century

10:05-10:35 AM **Morning tea break**

Microbiome: Chairs - Dr Saima Firdous Rehman (Centenary UTS Centre for Inflammation) and Dr Kurtis Budden (University of Newcastle)

10:35-11:00am **Professor Emad M El-Omar:** Latest updates in the microbiome field: an Editor's perspective

11:00-11:25am **Dr Mike Kendig:**Characterising the variability of microbiome changes following high-fat, high-sugar exposure

11:25-11:40am **Dr Kurtis Budden:** Faecal microbial transfer and complex carbohydrates mediate protection against COPD

11:40-12:05pm **Dr Laurence Luu:** Uncovering the role of the genital microbiome in Pelvic Inflammatory Disease

12:05-12:20pm **Sara Di Simone:** Longitudinal culturing of the early life human microbiome reveals temporal and spacial differentiation between the respiratory tract and gut

12:20-12:35pm **Rashad Mohammad Mahbub:** The influence of the gut microbiome on lung function disease

12:35-1:30 PM **Lunch break**

Bioinformatics: Chairs - Dr Alen Faiz, (University of Technology Sydney) and Hao Chen (Centenary UTS Centre for Inflammation)

1:30-1:45pm **Dr Alen Faiz:** Mouse single cell disease lung atlas

1:45-2:00pm **Dr Angela Ferguson:** High-dimensional spatial analysis of the tumour-microenvironment in head and Neck Cancer.

2:00-2:15pm **Dr. Tayyaba Sadaf:** Exploring miRNA-Mediated Regulation of Gene Expression in a Longitudinal COPD Model.

2:15-2:30pm **Hao Chen:** Spatiotemporal trajectory of B cells in the development of COPD

2:30-2:45pm **Andy Lan:** Epigenetic differences between asthma and healthy participants using the ATLANTIS cohort

2:45-3:15 PM **Afternoon tea break**

Inflammation and Treatments: Chairs - Professor Gabrielle Belz (UQ) and Andy Lan (University of Technology Sydney)

3:15-3:30pm **Assoc. Prof. Gregory Katsoulotos:**Putting the R into Response: assessing response to severe asthma biologics

3:30-3:45pm **Dr Stephen Milne:** Clinical outcomes from viral infections in COPD

3:45-4:00pm **Debora Macfie:** From the bedside to the Bench translating the clinician from the bedside to the Lab

4:00-4:15pm **Angelica Katsifis:** Defining the role and potential for therapeutic targeting of A1AT deficiency in COPD

4:15-4:30pm **Manav Sharma:** The effect of smoking on TSLP expression

4:30-5:00 PM **Closing and Awards** Professor Phil Hansbro

5:00 PM onwards **Social networking** The Alfred Hotel, Missenden Road, Camperdown
