

NAME 16

NSW Asthma Meeting
Thursday 17 and Friday 18 November 2022
Centenary Institute



Hosts



UTS

UNIVERSITY
OF TECHNOLOGY
SYDNEY

Platinum sponsors

Together with



AstraZeneca



Silver sponsor



Program - Thursday, 17 November

8:15 AM	Registration	Registration, tea and coffee
8:50 AM	Welcome	Prof Phil Hansbro, Director, Centenary UTS Centre for Inflammation
		A message from our platinum sponsors
9:00 AM	Regeneration in the lung Chair - Prof Phil Hansbro	Plenary 1: Prof Reinoud Gosens, University of Groningen, The Netherlands Therapeutic targeting of progenitor cell - niche interactions for alveolar epithelial repair Prof Wojciech Chrzanowski, University of Sydney Extracellular vesicles as multifunctional therapeutics for lung injury
10:30 AM	Morning tea break	
		A/Prof Lauren Troy, RPAH and University of Sydney COVID-19: A clinical perspective Prof Anthony Kelleher, Kirby Institute, UNSW Immunological lessons from convalescence and Long COVID Dr Alexandra Spencer, University of Newcastle Nasal administration of ChAdOx1 nCoV-19 for induction of lung specific responses Dr Claudio Counoupas, Centenary Institute Defining the mechanism of action of mucosal vaccines against tuberculosis Dr Matt Johansen, Centenary Institute Host susceptibility determinants to COVID-19 Dr Priyanka Hastak, Kirby Institute, UNSW Localized immune response in community acquired pneumonia Dr Elinor Hortle, Centenary Institute Role of mast cell proteases in <i>P. aeruginosa</i> infection
11:00 AM	Infectious respiratory diseases Chairs - Dr Matt Johansen, and Stefan Miemczyk PhD Candidate, Centenary UTS Centre for Inflammation	
1:15 PM	Lunch break	
2:15 PM	Immunomodulators & Immunometabolism Chairs - Prof Kevin Morris, Griffith University and Ridhima Wadhwa PhD Candidate, Centenary UTS Centre for Inflammation	Prof Marcel Nold, Monash University The immune underpinnings of chronic lung disease in preterm infants Prof Claudia Nold, Monash University Interventional Immunology in Early Life Diseases: Advancing Interleukin-1 Receptor Antagonist to Prevent Inflammatory Disease in Preterm Infants Shatarupa Das, PhD Candidate, Centenary Institute Targeting mitochondrial dysfunction as a potential therapeutic for Chronic obstructive pulmonary disease (COPD) Prof Kevin Morris, Griffith University Engineered cellular exosome therapeutics, towards the treatment of lung diseases
4:00 PM	Afternoon tea break	
4:20 PM	Poster Pitch session Chair - Dr Caitlin Gillis, Centenary UTS Centre for Inflammation	Rapid fire sessions
5:00 PM	Poster session	
7:00 PM – til late	Meeting Dinner	The Grandstand (by prior reservation only)

Program - Friday, 18 November

8:15 AM	Registration	Registration, tea and coffee
8:50 AM	Welcome	Prof Phil Hansbro
9:00 AM	<p>Diet & microbiome in chronic lung diseases</p> <p>Chair - Dr Nadia Amorim, Centenary UTS Centre for Inflammation</p>	<p>Plenary 2 : A/Prof Yvonne Huang, University of Michigan</p> <p>Microbiome-Host Interactions in Asthma and COPD through a Reverse Translational Lens</p> <p>Prof Phil Hansbro, Centenary Institute</p> <p>Molecular-based gut therapies as novel treatments for COPD</p>
10:30 AM	Morning tea break	
11:00 AM	<p>Diet + microbiome (continued)</p> <p>Chairs - Dr Annalicia Vaughan, Centenary UTS Centre for Inflammation and Dr Kurtis Budden, University of Newcastle</p>	<p>Dr Howard Yim, UNSW</p> <p>COPD and the gut-lung axis</p> <p>Dr Nadia Amorim, Centenary Institute</p> <p>Deciphering the gut-lung axis - how dietetic fibres impact on inflammation and lung disease</p> <p>Dr Annalicia Vaughan, Centenary Institute</p> <p>The role of the COPD gut microbiome in the development and severity of COPD</p>
12:00 PM	Lunch break	
1:15 PM	<p>Interstitial lung disease</p> <p>Chairs - Dr Ashleigh Philp, Centenary UTS Centre for Inflammation and Dr Tabitha Cree, St Vincents Hospital</p>	<p>Prof Tamera Corte, RPAH and University of Sydney</p> <p>Interstitial Lung Disease: Where are we now?</p> <p>Dr Ashleigh Philp, Centenary Institute</p> <p>Mitochondrial Dysfunction in Pulmonary Fibrosis</p> <p>Dr David Darley, St Vincents Hospital</p> <p>Eosinophilic inflammation in Lung Transplants: Clinical and pathological aspects</p> <p>Dr Tabitha Cree, St Vincents Hospital</p> <p>A proteomic analysis of eosinophilia and acute cellular dysfunction in transbronchial biopsies</p> <p>Dr Anna Yeung, Woolcock Institute</p> <p>Characterisation of silica dusts and their exposure effects in ALI cell model</p> <p>Dr Kurtis Budden, University of Newcastle</p> <p>Effects of Bushfire Particulate Matter on Bronchial Epithelial Cells</p>
3:00 PM	Afternoon tea break	

Program - Friday, 18 November continued

3:30 PM	COPD & multi-omics approaches	Chairs - Dr Elinor Hortle and Shatarupa Das PhD Candidate, Centenary UTS Centre for Inflammation	<p>Prof Meg Jardine, University of Sydney and George Institute Adaptive Trials: Chaos or Certainty?</p> <p>Dr Alen Faiz, UTS Uncovering the mechanism of anti-IL33 in former smokers with moderate-to-severe COPD using transcriptomics and single cell sequencing</p> <p>Dr Sobia Idrees, UTS Transcriptomic profile of human bronchial biopsies reveals new target genes in COPD</p> <p>Dr Matthew O'Rourke, UTS Integrating RNAseq and Proteomics to investigate the progression of COPD</p> <p>Tayyaba Sadaf, PhD Student, Centenary Institute Genome-wide CRISPR-Cas9 KO library screening against cigarette smoke</p> <p>Jos van Nijnatten, PhD Candidate, University of Groningen, The Netherlands Unique differentially expressed genes in bronchial brushes from patients with severe COPD</p> <p>Dr Saima Rehman, UTS Understanding the role of lipid metabolism and dietary lipids in Chronic Obstructive Pulmonary Disease through Omics Approaches</p> <p>Prof Shyamali Dharmage, University of Melbourne Pre-COPD: evidence and a way forward</p>

5:45PM **Closing and awards** **Professor Phil Hansbro**

6:00 PM **Social networking** **The Alfred Hotel, Camperdown**

Posters

1	Alessandra Bicego - An untargeted method for detection of Post Translational modifications
2	Andra Tsang - Comparing the effect of silica dust and cigarette smoking on lung disease
3	Angelia Katsifis - Establishing a mouse model of Alpha 1 Antitrypsin deficiency induced Chronic Obstructive Pulmonary Disease (COPD)
4	Caitlin Gillis - Targeting Apoptotic Cell Clearance by Macrophages Using Small Molecules
5	Ellen Bowden-Reid - Novel siRNA therapeutics targeting conserved regions across SARS-CoV-2 variants of concern demonstrate strong broad protection
6	Jacqueline Marshall - Tuft cells regulate inflammation in the lung during Influenza A virus infection
7	Karosham Reddy - Sex Cells: The contribution of the X and Y Chromosome in Asthma
8	Pooja Narang - Human Upper Respiratory Tract Microbiome and Epithelium Interactions
9	Rashad Mahbub - Integration of lung RNA-sequencing datasets
10	Senani Rathnayake - Smoking-induced shifts in cellular composition within the bronchial mucus barrier by cellular deconvolution
11	Stefan Miemczyk - Characterisation of an adenoviral transduction mouse model for SARS-CoV-2 infection
12	Yuan Zhang - Antiviral RNA therapeutics targeting SARS-CoV-2 delivered via nanoparticles