



# The 4th Australian Lipid Meeting

28th - 30th November, 2018

## WEDNESDAY, 28TH NOVEMBER, 2018

### 13.45 SESSION 1

- 13.45 – 14.00 Welcome Address
- 14.00 **Lipid Cell Biology**
- 14.00 – 14.35 Prof David Silver, Duke-NUS Medical School, Singapore  
*Brain Lipid Transport*
- 14.35 – 15.00 Prof Robert Yang, UNSW Australia  
*The role of oxysterol binding proteins in cellular lipid trafficking*
- 15.00 – 15.15 Talk from abstracts 1
- 15.15 – 15.25 Talk from abstracts 2
- 15.25 – 15.50 Afternoon Tea**

### 15.50 SESSION 2

- 15.50 **Lipidomics in Vascular Biology**
- 15.50 – 16.25 Prof Valerie O'Donnell, Cardiff University, UK  
*The generation and action of enzymatically-oxidised phospholipids (eoxPL) in vascular inflammation*
- 16.25 – 16.40 Talk from abstracts 3
- 16.40 – 17.10 Sciex Scientific Presentation  
*Structural Characterisation of Lipids*
- 17.10 – 19.00 **Poster session 1 (all poster presenters)**
- 17.30 – 19.00 Welcome Reception**

## THURSDAY, 29TH NOVEMBER, 2018

### 09.00 SESSION 1

- 9.00 – 10.30 **Neurological Lipidomics**
- 9.00 – 9.30 Prof Markus Leweke  
*Title: To be announced (topic: lipid metabolites of psychiatric disorders)*
- 9.30 – 9.50 A/Prof Woojin Scott Kim  
*Lipids, lipoproteins and lipidomics - what they tell us about frontotemporal dementia*
- 9.50 – 10.10 A/Prof Todd Mitchell  
*Alterations to cholesterol and sphingolipid metabolism in Huntington's disease*
- 10.10 – 10.25 Talk from abstracts 4
- 10.25 – 10.35 Talk from abstracts 5
- 10.35 – 11.00 Morning Tea**



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## THURSDAY, 29TH NOVEMBER, 2018 con't

### 11.00 SESSION 2

- 11.00 – 12.30 **Integrated 'Omics or similar topic**
- 11.00 – 11.30 Prof Mika Ala-Korpela, Baker IDI Institute, Melbourne  
*Integration of Large-Scale Omics Data to Facilitate Understanding of Lipoprotein and Lipid Metabolism*
- 11.30 – 11.45 Waters Corporation Scientific Presentation: Dr Lee Gethings, Winslow, UK  
*Translation of discovery multi-omics into rapid, targeted methodologies for respiratory medicine*
- 11.45 – 12.00 Talk from abstracts 6
- 12.00 – 12.15 Talk from abstracts 7
- 12.15 – 13.15 Lunch**

### 13.15 SESSION 3

- 13.15 – 13.45 **Lightning talks**  
Six x five minute lightning talks selected from abstracts
- 13.45 **Plant Lipids and Imaging Mass Spectrometry**
- 13.45 – 14.20 Prof Kent Chapman, University of North Texas, USA  
*Lipidomics from a spatial perspective: What can lipid location tell us about triacylglycerol metabolism in oilseeds?*
- 14.20 – 14.45 A/Prof Bronwyn Barkla, Southern Cross University, Australia  
*Single cell-type studies in modified trichomes of a halophyte plant reveals salinity-induced lipid remodelling*
- 14.45 – 15.00 Talk from abstracts 8
- 15.00 – 15.10 Talk from abstracts 9
- 15.10 – 15.40 Afternoon Tea**

### 15.40 SESSION 4

- 15.40 – 16.40 **Targeted or Untargeted and New developments**
- 15.40 – 16.10 Thermo Fisher Scientific Presentation: Prof Gavin Reid, University of Melbourne  
*Cutting the Fat: Photodissociation Tandem Mass Spectrometry for Structural Characterization of the 'Hidden' Lipidome*
- 16.10 – 16.40 Shimadzu Scientific Presentation
- 16.45 – 18.00 **Poster session 2**

### 18.30 - 22.30 CONFERENCE DINNER INCLUDING STUDENT AND POSTER AWARDS



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FRIDAY, 30TH NOVEMBER, 2018

## 09.00 SESSION 1

- 9.00 – 10.30 **Cell biology 2**
- 9.00 – 9.35 Prof Judith Storch, Rutgers University, USA  
Cholesterol trafficking by NPC proteins
- 9.35 – 9.50 Prof Andrew Brown, UNSW Australia  
Understanding the Cellular Cholesterol Economy in an Oncogenic Context
- 9.50 – 10.10 Prof Thomas Grewal, University of Sydney, Australia  
Annexin A6 depletion rescues cholesterol egress in NPC1 mutant cells via formation of endosome-ER membrane contact site
- 10.10 – 10.25 Dr Andrew Hoy, University of Sydney, Australia  
Cholesteryl ester metabolism and prostate cancer progression
- 10.25 – 11.00 **Morning Tea**

## 11.00 SESSION 2

- 11.00 – 12.45 **Metabolism**
- 11.00 – 11.35 Prof Leanne Hodson, Oxford University, UK  
The ins and outs of liver metabolism: lessons learnt from human in vivo, ex situ and in vitro models
- 11.35 – 11.50 Talk from abstracts 10
- 11.50 – 12.00 Talk from abstracts 11
- 12.00 – 12.15 Dr Xin Ying Lim, UNSW Australia  
Development of the first isoform-selective ceramide synthase inhibitor: muscle ceramides regulate systemic fat metabolism but not insulin sensitivity
- 12.15 – 12.30 Dr Clinton Bruce, Deakin University, Australia  
The role of mitochondrial derived phosphatidylethanolamine in skeletal muscle biology
- 12.30 – 12.45 **Close**

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