

# Scientific Program



**apsa**   
Australasian Pharmaceutical Science Association

# APSA-ASCEPT

## JOINT SCIENTIFIC MEETING 2015

Drugs to medicines: up close and personal

29 November - 2 December 2015  
Hotel Grand Chancellor Hobart



 **ASCEPT**

[www.apsa-ascept2015.com](http://www.apsa-ascept2015.com)

## Saturday 28 November 2015

<b>14:00 – 16:00</b>	<b>OSCE workshop</b>
	<b>Venue:</b> University of Tasmania, Medical Sciences Precinct, Room 158/159, Level 1, 17 Liverpool St, Hobart
	<b>Chair:</b> Assoc Prof Parisa Aslani
	<b>OSCEs and their role as an assessment tool</b> , Dr Safeera Hussainy, Monash University
	<b>The logistics of OSCEs</b> , Prof Richard Hays, University of Tasmania
	<b>Q&amp;A / discussion time</b>
	<ul style="list-style-type: none"> <li>· break out groups (Science, Medicine and Pharmacy)</li> <li>· common (all courses) and specific questions (eg Science courses)</li> </ul>
	<b>Wrap-up</b>
	<b>Informal dinner:</b> The Mill on Morrison, 11 Morrison Street, Hobart

## Sunday 29 November 2015

<b>09:30 – 19:30</b>	<b>Registration desk open</b> Federation Foyer, Mezzanine Level		
<b>10:00 – 13:00</b>	<b>ASCEPT Board meeting</b>	<b>10:00 – 11:40</b>	
	Room: Harbour View Room 2	<b>Pharmacogenomics workshop</b>	
		Room: Grand Ballroom 2	
		<b>Chair:</b> Prof Andrew Somogyi	
		<b>Pharmacogenetic studies in adults and children with cancer</b> Prof Alan Boddy, University of Sydney	
		<b>Implications and challenges of genome-wide association study in pharmacogenomics research</b> Dr Siew-Kee Low, University of Sydney	
		<b>Drug hypersensitivity</b> Dr Ana Alfirevic, University of Liverpool, UK	
		<b>11:40 – 12:00</b>	
		<b>Pharmacogenomics SIG AGM</b>	
			<b>12:30 – 15:30</b>
			<b>Education Forum</b>
<b>14:30 – 16:30</b>	<b>Careers workshop</b>	<b>Clinical Pharmacology workshop</b>	Room: Grand Ballroom 3
	Room: Grand Ballroom 1	Room: Grand Ballroom 2	<b>Chair:</b> Dr Anna-Marie Babey
	<b>Chairs:</b> Ms Erica Diezmos; Ms Pamela Srouf	<b>Chair:</b> Assoc Prof Darren Roberts	<b>12:30 – 14:00 Benchmarking</b> Dr Sara Booth, The University of Tasmania
	<b>Beyond tradition — where to next?</b> Prof Andrew McLachlan, The University of Sydney; Concord Hospital Dr Annette Gross, GlaxoSmithKline Prof Martin Michel, Johannes Gutenberg University, Germany Dr Orin Chisholm, University of New South Wales Dr Bill Smith, Gilead Sciences, USA	<b>Assessing evidence in drug safety</b> Assoc Prof Darren Roberts, Medical School, Australian National University; Renal Medicine, The Canberra Hospital Dr Adam La Caze, School of Pharmacy, The University of Queensland	<b>Group discussion</b> <b>14:00 – 15:30 Blended learning ideas exchange workshop</b>
		Sponsored by 	
		<b>15:30 – 16:30</b>	
		<b>ASCEPT Education forum AGM</b>	
		Room: Grand Ballroom 3	
<b>16:30 – 16:55</b>		<b>16:30 – 16:55</b>	
		<b>ASCEPT Clinical Pharmacology AGM</b>	
		Room: Grand Ballroom 2	
<b>17:00 – 18:00</b>	<b>Conference opening and keynote address</b>		
	Room: Concert Hall		
	<b>Chair:</b> Assoc Prof Peter Molenaar		
	Assoc Prof Parisa Aslani, President, APSA Assoc Prof Peter Molenaar, President, ASCEPT Prof Peter Rathjen, Vice-Chancellor, The University of Tasmania		
	<b>And then there were three – lessons from a convoluted drug development project - 100</b> Prof Martin Michel, Johannes Gutenberg University, Germany		Sponsored by 
<b>18:00 – 19:30</b>	<b>Welcome reception</b>		
	Hotel Grand Chancellor Hobart, Mezzanine Level		

# Monday 30 November 2015

07:30 – 18:00	<b>Registration desk open</b> Federation Foyer, Mezzanine Level			
08:30 – 09:30	<b>British Pharmacological Society keynote address</b>			
	Room: Concert Hall			Sponsored by 
	Chair: Assoc Prof Peter Molenaar			
	<b>Pharmacogenetics including personalisation of treatment in cardiovascular medicine through next generation sequencing - 101</b> Dr Ana Alfrevic, University of Liverpool, UK			
09:30 – 10:25	<b>Morning tea with exhibitors</b> <b>Poster presentations:</b> Cardiovascular, Clinical Pharmacology, Drug Discovery, Pharmacy Practice Federation Ballroom			
10:30 – 12:30	<b>Symposium 1:</b> Misuse of pharmaceuticals and herbal medications: Epidemiology and implications	<b>Symposium 2:</b> Discovery and development of novel anti-fibrotic therapies	<b>Symposium 3:</b> Pharmacokinetic challenges to drug development and clinical implementation  Sponsored by 	<b>Symposium 4:</b> Recent advances and therapeutic developments in purinergic signalling
	Room: Grand Ballroom 1 Chairs: Dr Jenni Ilomäki; Dr Ian Musgrave	Room: Grand Ballroom 2 Chair: Assoc Prof Chrisan Samuel Assoc Prof Kevin Pflieger	Room: Grand Ballroom 3 Chairs: Dr Andrew Rowland; Dr David Foster	Room: Concert Hall Chair: Dr Lu Liu
10:30 – 11:00	<b>Pharmaceutical drug misuse: Implications for post-market surveillance - 102</b> Prof Nicholas Buckley, The University of Sydney	<b>Development of novel anti-fibrotic treatment for chronic kidney and heart disease - 106</b> Dr Yuan (Michael) Zhang, The University of Melbourne	<b>The Pharmacokinetic intersection of academia, hospital and pharmaceutical industry - 110</b> Dr Vidya Perera, Bristol-Myers Squibb	<b>Sensory innervation of the gut and bladder - role of purines - 114</b> Prof Simon Brookes, Flinders University
11:00 – 11:30	<b>Opioid substitution therapy among prisoners: Longitudinal findings from a data linkage study - 103</b> Dr Natasa Gisev, University of New South Wales	<b>Role of oxidative stress in the development of pulmonary fibrosis? - 107</b> Assoc Prof Ross Vlahos, RMIT University	<b>Dose individualisation of sunitinib and tamoxifen - 111</b> Assoc Prof Howard Gurney, Westmead Hospital	<b>Effect of infection and inflammation on purinergic signalling in the urinary bladder: A trigger for Detrusor Overactivity? - 115</b> Assoc Prof Kylie Mansfield, University of Wollongong
11:30 – 12:00	<b>Misuse of herbal medicines: An emerging issue - 104</b> Dr Ian Musgrave, The University of Adelaide	<b>Relaxin: A pleiotropic hormone with potent anti-fibrotic actions - 108</b> Assoc Prof Chrisan Samuel, Monash University	<b>Across the continuum: DMPK experiences from preclinical to market - 112</b> Dr Bill Smith, Gilead Sciences  Sponsored by 	<b>P2X1-purinergic antagonists as potential male contraceptives - 116</b> Dr Sab Ventura, Monash University
12:00 – 12:30	<b>Trends in pharmaceutical drug-related harms - 105</b> Assoc Prof Belinda Lloyd, Monash University	<b>Insulin regulated aminopeptidase: A novel target to treat cardiac fibrosis - 109</b> Dr Tracey Gaspari, Monash University	<b>Medicines regulation and pharmacokinetics: An academic perspective - 113</b> Prof Andrew McLachlan, The University of Sydney	<b>Postjunctional GPCR regulation of lower urinary tract purinergic responses - 117</b> Prof Russ Chess-Williams, Bond University
12:30 – 13:25	<b>Lunch with exhibitors</b> <b>Poster presentations:</b> Cardiovascular, Clinical Pharmacology, Drug Discovery, Pharmacy Practice Federation Ballroom			<b>12:30 – 13:00</b> <b>Drug Disposition and Response SIG AGM</b> Room: Grand Ballroom 3
				<b>12:30 – 13:00</b> <b>Respiratory &amp; Inflammation SIG AGM</b> Room: Concert Hall
				<b>12:30 – 13:00</b> <b>Toxicology SIG AGM</b> Room: Grand Ballroom 1
				<b>13:00 – 13:25</b> <b>APSA Council Meeting</b> Room: Grand Ballroom 2

Monday 30 November (cont'd)

13:30 – 15:30	Oral presentations 1: Pharmacy Practice	Oral presentations 2: Pharmacoepidemiology	Oral presentations 3: Cardiovascular	Oral presentations 4: Drug Discovery
	Room: Grand Ballroom 1	Room: Grand Ballroom 2	Room: Grand Ballroom 3	Room: Concert Hall
	Chair: Dr Leanne Chalmers	Chair: Dr Prasad Nishtala	Chair: Dr Tim Murphy	Chair: Assoc Prof Kevin Pflieger
13:30 – 13:45	<b>Standardised over-the-counter medicine labels – can we do it? - 118</b> Ms Vivien Tong, The University of Sydney	<b>Prioritising interventions to address polypharmacy in Australian aged care facilities - 126</b> Ms Kate Wang, Monash University	<b>NOX2 oxidase promotes prostate tumour development - 134</b> Mr Ian Harrison, Monash University	<b>Dimer interfaces are implicated in the structural basis of allosterism at metabotropic glutamate receptor 5 - 142</b> Dr Karen Gregory, Monash University
13:45 – 14:00	<b>How do the stakeholders perceive the changing situation in Australian community pharmacy? - 119</b> Mr Andi Hermansyah, The University of Sydney	<b>What's most important to residents and health care professionals when deprescribing in residential aged care facilities? - 127</b> Mr Justin Turner, Monash University	<b>Des-acylated ghrelin limits brain injury and blood-brain barrier disruption after stroke - 135</b> Dr Alyson Miller, RMIT University	<b>Enhanced glucose uptake in brite/beige adipocytes following adrenoceptor activation - 143</b> Dr Dana Hutchinson, Monash University
14:00 – 14:15	<b>Unconscious implicit attitudes as a predictor of medicines adherence and self-medication - 120</b> Dr James Green, University of Otago	<b>Older adults' and carers' beliefs and attitudes towards deprescribing - 128</b> Dr Emily Reeve, The University of Sydney	<b>HNO donor isopropylamine NONOate offers haemodynamic advantages over the NO donor diethylamine NONOate in the diabetic rat myocardium ex vivo - 136</b> Mr Jarryd Anthonisz, Baker IDI Heart and Diabetes Research Institute	<b>Identifying the orthosteric vestibule and an allosteric binding site of the <math>\alpha_{1A}</math> adrenoceptor - 144</b> Dr Angela Finch, University of New South Wales
14:15 – 14:30	<b>What do consumers want to know about drugs (medication and lifestyle) in their pregnancy journey? - 121</b> Dr Treasure McGuire, The University of Queensland; Mater Health Services Brisbane	<b>Are polypharmacy and medication regimen complexity associated with all-cause mortality in older people? A population-based cohort study - 129</b> Ms Barbara Wimmer, Monash University	<b>Loss of Alzheimer's-associated tau (MAPT) impairs cardiovascular function - 137</b> Mr Ashenafi Haileyesus Betrie, The University of Melbourne	<b>Mechanisms of selectivity for allosteric modulators of the muscarinic acetylcholine receptors (mAChRs) - 145</b> Dr Celine Valant, Monash Institute of Pharmaceutical Sciences
14:30 – 14:45	<b>Over-the-counter supply of combination analgesics containing codeine in community pharmacy: A simulated patient study - 122</b> Dr Joy Spark, La Trobe University	<b>Statin discontinuation in older people with dementia: A pharmacoepidemiological study - 130</b> Ms Sujita Narayan, University of Otago	<b>Phosphoinositide 3-kinase [p110<math>\alpha</math>] (PI3K) gene therapy attenuates type 1 diabetic cardiomyopathy in mice - 138</b> Mr Darnel Prakoso, Baker IDI Heart and Diabetes Institute	<b>Probing the pharmacology of the <math>\alpha_{1A}</math>-adrenoceptor with fluorescent prazosin - 146</b> Miss Linzi Lim, Monash University
14:45 – 15:00	<b>Consumer perceptions of service quality in Australian community pharmacies - 123</b> Mr Ardalan Mirzaei, The University of Sydney	<b>Patterns in use and costs of disease-modifying anti-rheumatic drugs (DMARDs) and biologic DMARDs (bDMARDs) in Australia - 131</b> Miss Ellen Donges, The University of Queensland	<b>The effects of Th2 cytokines to modulate macrophage phenotype and reactive oxygen species generation - 139</b> Ms Tara McConaghy, Monash University	<b>Identification of the molecular determinants of adenosine <math>A_1</math> receptor allosteric modulation - 147</b> Dr Lauren May, Monash University
15:00 – 15:15	<b>Examining hospital pharmacists' goals for medication counselling within the communication accommodation theoretical framework - 124</b> Ms Bernadette Chevalier, The University of Queensland	<b>A model for predicting high bleeding risk among potential warfarin users - 132</b> Miss Saranya Ramesh, Monash University	<b>Chronic <math>\beta</math>1-blockade impairs ischaemic tolerance and preconditioning in murine myocardium - 140</b> Miss Louise See Hoe, Griffith University	<b>Compartmentalised signalling of the Calcitonin Gene-Related Peptide (CGRP) Receptor - 148</b> Dr Meritxell Canals, Monash Institute of Pharmaceutical Sciences
15:15 – 15:30	<b>Exploring the role of health beliefs in medication adherence in individuals with asthma - 125</b> Ms Holly Foot, The University of Queensland	<b>Improving the assessment of drug safety: An analysis of the clopidogrel-proton pump inhibitor interaction - 133</b> Dr Adam La Caze, The University of Queensland	<b>Deficiency of endogenous annexin-A1 exaggerates cardiomyopathy in a mouse model of type 1 diabetes - 141</b> Ms Sarah Rosli, Monash University; Baker IDI Heart and Diabetes Institute	<b>Site-directed mutagenesis at the dopamine <math>D_2</math> receptor reveals key residues involved in receptor activation and biased agonism - 149</b> Ms Carmen Klein Herenbrink, Monash University
15:30 – 15:55	<b>Afternoon tea with exhibitors</b> Federation Ballroom			<b>Drug Discovery SIG AGM</b> Room: Concert Hall
			<b>15:40 – 15:55</b> <b>Overcoming the challenge of analysing drugs, toxins and metabolites in real samples</b> Dr Paul Wynne, Shimadzu Room: Grand Ballroom 1	<b>Cardiovascular SIG AGM</b> Room: Grand Ballroom 3
				<b>Neuropharmacology SIG AGM</b> Room: Grand Ballroom 2

## Monday 30 November (cont'd)

16:00 – 18:00	Oral presentations 5: Pharmacy Practice	Oral presentations 6: Clinical Pharmacology	Oral presentations 7: Respiratory & Inflammation	Oral presentations 8: Pharmacoepidemiology /Toxicology
	Room: Grand Ballroom 1	Room: Grand Ballroom 2	Room: Grand Ballroom 3	Room: Concert Hall
	<b>Chair:</b> Assoc Prof Neil Cottrell	<b>Chairs:</b> Prof Sarah Hilmer; Dr Emily Reeve	<b>Chairs:</b> Assoc Prof Ross Vlahos; Dr Stavros Selemidis	<b>Chair:</b> Dr Ian Musgrave
16:00 – 16:15	<b>“Use with caution in renal impairment” – implications for drug dosing in the general practice setting - 150</b> Ms Margaret Jordan, Bulli Medical Practice; Woonona Medical Practice	<b>A mathematical model of the metabolic pathway for azathioprine and 6-mercaptopurine - 158</b> Prof Murray Barclay, Christchurch Hospital	<b>NOX2 oxidase expressed in endosomes exacerbates viral pathogenicity - 166</b> Miss Eunice To, Monash University	<b>An ecological study of the extent and factors associated with use of prescription and over-the-counter codeine in Australia - 174</b> Dr Natasa Gisev, University of New South Wales
16:15 – 16:30	<b>Clinicians’ attitudes and perceptions regarding stroke prevention in atrial fibrillation - 151</b> Ms Bryony Scott, University of Tasmania	<b>Impact of deprescribing of polypharmacy on adverse geriatric outcomes - 159</b> Prof Sarah Hilmer, Royal North Shore Hospital; The University of Sydney	<b>Urokinase-dependent plasminogen activation mediates increased interleukin-6 in lung fibrogenesis - 167</b> Dr Michael Schuliga, The University of Melbourne	<b>Spontaneously reported haemorrhagic adverse events associated with rivaroxaban in Australia - 175</b> Ms Esa Chen, Monash University
16:30 – 16:45	<b>SMART-AF: Development of a decision support smartphone app to improve antithrombotic prescribing in atrial fibrillation - 152</b> Dr Leanne Chalmers, University of Tasmania	<b>Medicine information exchange networks among health care professionals and prescribing in geriatric medicine wards - 160</b> Mr Bosco Chan, The University of Sydney	<b>Airway smooth muscle conditioned media protects airway epithelial cells from the viral-induced glucocorticoid insensitivity - 168</b> Dr Yuxiu Connie Xia, The University of Melbourne	<b>Association rule and frequent-set analysis: Potential adverse drug reactions (ADRS) pharmacovigilance method - 176</b> Prof David LeCouteur, The University of Sydney
16:45 – 17:00	<b>Home Medicines Review following acute coronary syndromes: Preliminary results from a randomised controlled trial - 153</b> Mr Daniel Bernal, University of Tasmania	<b>Pharmacokinetics and efficacy of oral frusemide in decompensated vs. compensated heart failure - 161</b> Dr Maneesha Dedigama, Flinders Medical Centre	<b>Inhibition of NOX2 oxidase via a novel endosome specific inhibitor reduces influenza A virus (IAV)- induced lung inflammation - 169</b> Mr Raymond Luong, Monash University	<b>Drug overdose in the elderly - 177</b> Dr Sivarajah Ilango, Princess Alexandra Hospital
17:00 – 17:15	<b>Hospital readmission for major bleeding or thromboembolic complications in patients with atrial fibrillation - 154</b> Mrs Durga Bista, University of Tasmania	<b>Prescribing of oral anticoagulants in older inpatients: Has the availability of newer agents led to inappropriate prescribing practices? - 162</b> Dr Nicholas Farinola, Royal Adelaide Hospital	<b>Assessing changes in airway and vascular remodelling and contraction in a mouse model of bronchopulmonary dysplasia - 170</b> Mr Maurice Kroon, Monash University	<b>Integration of multiple computational models of bioassays improve in vivo rodent carcinogenicity prediction - 178</b> Mr Davy Guan, Sydney University
17:15 – 17:30	<b>Association of antihypertensive medication class and falls in the elderly: Systematic review and meta-analysis - 155</b> Mr Reza Kahladee, The University of Sydney	<b>What Is Polypharmacy Exactly (WIPE) study - 163</b> Dr Gao Jing Ong, Queen Elizabeth Hospital	<b>Serelaxin is an epithelial-dependent bronchodilator in rat precision cut lung slices and trachea - 171</b> Miss Maggie Lam, Monash University	<b>NQO1-dependent Mito-Toxicity of Clioquinol - 179</b> Ms Jamuna Chhetri, University of Tasmania
17:30 – 17:45	<b>National survey of community pharmacy’s capacity to screen for the risk of cardiovascular disease - 156</b> Prof Ines Krass, The University of Sydney	<b>Drug-drug interaction alerts in an electronic prescribing system - 164</b> Dr Philip Drennan, Canterbury District Health Board	<b>GPR40 and GPR120 – Novel targets for the treatment of lung disease - 172</b> Ms Chantal Donovan, Monash University	<b>Ageing and drug induced liver injury: Insights from animal studies - 180</b> Mr John Mach, The University of Sydney; Royal North Shore Hospital
17:45 – 18:00	<b>Understanding healthcare professionals’ perspectives on Nepalese patients’ diabetes management - 157</b> Ms Sujata Sapkota, The University of Sydney	<b>What effect does methotrexate have on the liver in patients with a rheumatologic condition? - 165</b> Dr Andrew Finch, Royal Brisbane Hospital	<b>Regulation of PAR<sub>2</sub> trafficking and resensitization by Gβγ and PKD - 173</b> Dr Peishen Zhao, Monash University	<b>Optimising the logistics of life-saving drug procurement and supply in NSW and the ACT - 181</b> Dr Alexandra Bennett, NSW Therapeutic Advisory Group

# Therapeutic Guidelines


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Therapeutic  
Guidelines

## Tuesday 1 December 2015

08:00 – 17:00	<b>Registration desk open</b> Federation Foyer, Mezzanine Level			
07:45 – 08:20	<b>APSA AGM</b> Room: Grand Ballroom 1			
08:30 – 09:30	<b>APSA Medal Oration</b> Room: Concert Hall <b>Chair:</b> Assoc Prof Parisa Aslani <b>Innovation, quality, translation: Across the borders - 200</b> Prof Sanjay Garg, University of South Australia			
09:30 – 10:25	<b>Morning tea with exhibitors</b> <b>Poster presentations:</b> Education, Drug Disposition and Response, Respiratory & Inflammation, Neuro- and Behavioural Pharmacology, Pharmaceutical Science, Pharmacy Education, Pharmacoepidemiology, Pharmacogenomics, Toxicology, Urogenital and Gastrointestinal Federation Ballroom			Sponsored by 
10:30 – 12:30	<b>Symposium 5:</b> Influence of kidney function on drug disposition and response Room: Grand Ballroom 1 <b>Chair:</b> Prof Ric Day	<b>Symposium 6:</b> Novel approaches for delivery of biologics Room: Grand Ballroom 2 <b>Chair:</b> Dr Joe Nicolazzo	<b>Symposium 7:</b> Preparing graduates for the workplace Room: Grand Ballroom 3 <b>Chair:</b> Assoc Prof Elizabeth Davis	<b>Symposium 8:</b> Ethnicity and personalised medicine Room: Concert Hall <b>Chairs:</b> Dr John Duley; Dr Ana Alfirevic
10:30 – 11:00	<b>Overview of changes in drug disposition with impaired kidney function - 201</b> Assoc Prof Darren Roberts, Australian National University Medical School; The Canberra Hospital	<b>Improving the lung exposure of therapeutic proteins following inhaled delivery via optimal PEGylation - 205</b> Dr Lisa Kaminskas, Monash University	<b>What outcomes do we want for our graduates? - 209</b> Prof Brian Yates, The University of Tasmania	<b>Ethnopharmacology: From drugs to medicines for all populations - 213</b> Dr Annette Gross, GlaxoSmithKline
11:00 – 11:30	<b>Optimising drug dosing in acute kidney injury and renal replacement therapies - 202</b> Prof Jason Roberts, The University of Queensland	<b>Formulation of DNA for intramuscular administration - 206</b> Prof Colin Pouton, Monash University	<b>Translating research experiences to employability skills: Using evidence to make a convincing case - 210</b> Dr Kirsten Zimbardi, The University of Queensland	<b>CYP2C19 genetics in Maori and Pacific peoples - 214</b> Assoc Prof Nuala Helsby, University of Auckland
11:30 – 12:00	<b>Novel imaging techniques for assessing renal disposition in vivo - 203</b> Dr Xin Liu, The University of Queensland	<b>Exploiting mucosal surfaces for delivery of antigens - 207</b> Prof Michael Roberts, University of South Australia; The University of Queensland	<b>Developing career ready graduates - 211</b> Dr Laurence Orlando, Monash University	<b>Personalised medicines for Aboriginal Australians - 215</b> Prof Andrew Somogyi, University of Adelaide
12:00 – 12:30	<b>Augmented renal clearance: Effects on drug disposition and clinical response - 204</b> Assoc Prof Andrew Udy, Alfred Hospital; Monash University	<b>Delivery platforms for maximising immunisation responses - 208</b> Prof Sarah Hook, University of Otago	<b>Preparedness for prescribing: What do your medical students think - 212</b> Ms Claire Johnston, Australian National University	<b>Interethnic differences in pain, analgesia and neuroimmunogenetics - 216</b> Dr Daniel Barratt, University of Adelaide
12:30 – 13:25	<b>Lunch with exhibitors</b> <b>Poster presentations:</b> Education, Drug Disposition and Response, Respiratory & Inflammation, Neuro- and Behavioural Pharmacology, Pharmaceutical Science, Pharmacy Education, Pharmacoepidemiology, Pharmacogenomics, Toxicology, Urogenital and Gastrointestinal Federation Ballroom			<b>12:30 – 13:00</b> <b>Pharmacoepidemiology SIG AGM</b> Room: Concert Hall




**STUDY WITH THE BEST**



**Research and Training**

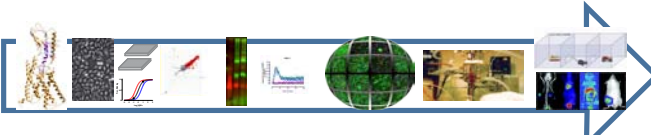
- ♦ Research laboratories housed state-of-the-art buildings
- ♦ International and award-winning faculty including Nobel Laureate Adjunct Professor Brian Kobilka
- ♦ Core facilities offering cutting-edge services:
  - ♦ Whole-animal Imaging Core, Murine Disease Model Facility, Radioisotopic, Assay Core, FACS Core
  - ♦ Cell Signaling Core, Ex vivo pharmacology, Mammalian Cell Culture, Molecular Modelling, Molecular Biology Core
- ♦ Range of therapeutic foci: Cancer, Metabolic Disease, CNS Disorders, Inflammation and Pain and Cardiovascular Disease
- ♦ Generous scholarships are available to support outstanding PhD prospects



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Screening, Signal profiling  
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**Cellular**  
Microscopic imaging  
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**In Vivo**  
Behavioural testing  
Small animal imaging




**Molecular**  
Structural biology &  
Molecular modelling

**Cellular**  
Protein-protein  
interactions

**Tissue physiology**  
Langendorf heart  
Brain slices

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## Tuesday 1 December (cont'd)

13:30 – 15:30	Oral presentations 9: ASCEPT Garth McQueen Oral Prize	Oral presentations 10: Pharmacy Practice	Oral presentations 11: Clinical Pharmacology	Oral presentations 12: Pharmaceutical Science
	Room: Grand Ballroom 1	Room: Grand Ballroom 2	Room: Grand Ballroom 3	Room: Concert Hall
	Chair: Dr Nicole Jones	Chair: Assoc Prof Rhiannon Braund	Chair: Assoc Prof Matt Doogue	Chair: Dr Lisa Kaminskas
13:30 – 13:45	<p><b>Pharmacological Inhibition of Insulin Regulated Aminopeptidase (IRAP) completely reverses age-mediated Cardiac Fibrosis - 217</b></p> <p>Miss Huey Wen Lee, Monash University</p>	<p><b>Factors influencing patients' adherence to antidepressant medicines in unipolar depression: A qualitative study - 224</b></p> <p>Miss Pornchanok Srimongkon, The University of Sydney</p>	<p><b>Personalising busulfan in children; from assessment of new dose regimens to individualised limited sampling for therapeutic drug monitoring - 232</b></p> <p>Dr Sam Salman, University of Western Australia</p>	<p><b>Styrene maleic acid micelles as a nanocarrier system for oral delivery of paclitaxel - 240</b></p> <p>Ms Neha Parayath, University of Otago</p>
13:45 – 14:00	<p><b>Implementation of the Drug Burden Index with Home Medicines Review in older Australians: A feasibility and utility study - 218</b></p> <p>Ms Lisa Kouladjian, The University of Sydney</p>	<p><b>Spontaneous adverse event reports associated with zolpidem - 225</b></p> <p>Ms Carmen Wong, The University of Sydney</p>	<p><b>Systemic inflammation predicts drug pharmacokinetics and clinical outcomes in advanced non-small cell lung cancer patients receiving paclitaxel and carboplatin chemotherapy - 233</b></p> <p>Mr Benjamin Harris, The University of Sydney</p>	<p><b>Development of a physically stable high dose powder for inhalation by spray-drying - 241</b></p> <p>Dr Shyamal Das, University of Otago</p>
14:00 – 14:15	<p><b>Digoxin withdrawal in stable heart failure with reduced ejection fraction in sinus rhythm - A randomised controlled trial - 219</b></p> <p>Dr Ingrid Hopper, Monash University</p>	<p><b>Exploring the visible components of organisational culture: What influences the use of psychotropic medicines in nursing homes? - 226</b></p> <p>Miss Mouna Sawan, Sydney University</p>	<p><b>Utility of the OncoFOCUS™ +KIT somatic cancer mutation screen in directing targeted pharmacotherapy - 234</b></p> <p>Dr Thomas Polasek, Flinders University</p>	<p><b>Development of localized stent drug delivery system for esophageal cancer - 242</b></p> <p>Prof Sanjay Garg, University of South Australia</p>
14:15 – 14:30	<p><b>Assessment of the potential remodelling of calcium signalling in human breast cancer-associated fibroblasts - 220</b></p> <p>Ms Teneale Stewart, The University of Queensland</p>	<p><b>Targeting health related quality of life (HRQoL) in pharmaceutical care: A systematic review and meta-analysis of the impact of pharmaceutical care services on quality of life - 227</b></p> <p>Mr Mohammed Mohammed, The University of Sydney</p>	<p><b>Cerebrospinal fluid pharmacokinetics of tobramycin following intraventricular administration - 235</b></p> <p>Ms Pamela Buffery, Canterbury District Health Board</p>	<p><b>Enhancing topical delivery of glutathione by utilizing chemical modification and niosomal delivery systems - 243</b></p> <p>Mr Murad Al-Gailani, University of Auckland</p>
14:30 – 14:45	<p><b>Understanding the mechanism of action of a novel class of allosteric modulator of the dopamine D<sub>2</sub> receptor - 221</b></p> <p>Mr Christopher Draper-Joyce, Monash University</p>	<p><b>Potential medicine sharing risk reduction strategies: A qualitative analysis of patients' and health professionals' views using the Behaviour Change Wheel - 228</b></p> <p>Mr Kebede Beyene, University of Auckland</p>	<p><b>Flucloxacillin: Total concentrations poorly reflect unbound concentrations in hospitalised patients - 236</b></p> <p>Dr Paul Chin, Christchurch Hospital; University of Otago</p>	<p><b>Characterization of Gloop: Is it suitable for medication delivery in dysphagic patients? - 244</b></p> <p>Dr Juliana Manrique, The University of Queensland</p>
14:45 – 15:00	<p><b>Paracetamol hepatotoxicity in mice: Effect of age, frailty, N-acetyl cysteine and exposure type - 222</b></p> <p>Ms Alice Kane, Kolling Institute</p>	<p><b>Sedatives and safety: A matter of risk perception and communication between pharmacists and patients - 229</b></p> <p>Mr Ibrahim Jomaa, The University of Sydney</p>	<p><b>Antibiotics prescribed to patients receiving haemodialysis in both the community and hospital settings - 237</b></p> <p>Ms Katrina Hui, Monash University</p>	<p><b>Solubility and stability improvement of Curcumin using solid dispersion approach - 245</b></p> <p>Mr Ankitkumar Parikh, University of South Australia</p>
15:00 – 15:15	<p><b>New horizons for male contraception: A non-hormonal approach via blockade of P2X1-purinoreceptors and <math>\alpha_{1A}</math>-adrenoceptors - 223</b></p> <p>Ms Nicole Eise, Monash University</p>	<p><b>Does mental health first aid training affect MPharm students' literacy, knowledge and attitudes towards perinatal depression? A pre-test/post-test pilot study - 230</b></p> <p>Ms Sarira El-Den, The University of Sydney</p>	<p><b>Febuxostat: An analysis of its dose-response relationship with serum urate - 238</b></p> <p>Mr Diluk Kannangara, University of New South Wales; St Vincent's Hospital</p>	<p><b>A semi-physiologically based pharmacokinetic model and a time-to-event model to explore leflunomide disposition and cessation due to toxicity - 246</b></p> <p>Mr Ashley Hopkins, University of South Australia</p>
15:15 – 15:30		<p><b>The role of medicinal cannabis in clinical therapy - Pharmacists' perspectives - 231</b></p> <p>Mr Sami Isaac, The University of Sydney</p>	<p><b>Metformin and weight loss: An exposure-response relationship - 239</b></p> <p>Mr Shaun Kumar, St Vincent's Hospital</p>	<p><b>Towards point of care analysis of ampicillin from whole blood - 247</b></p> <p>Dr Rosanne Guijt, University of Tasmania</p>

## Tuesday 1 December (cont'd)

15:30 – 15:55	<b>Afternoon tea with exhibitors</b> Federation Ballroom
16:00 – 17:00	<b>ASCEPT Michael Rand Medal lecture</b>
	Room: Concert Hall
	<b>Chair:</b> Assoc Prof Peter Molenaar <b>The Greenfields of Geriatric Pharmacology</b> Prof David LeCouteur, Centre for Education & Research on Ageing, The University of Sydney
17:00 – 18:00	<b>ASCEPT AGM</b> Room: Concert Hall
19:00 – 23:00	<b>Meeting dinner</b> Hobart Function and Conference Centre, 1 Elizabeth Street Pier, Hobart



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The Centre for Education and Research on Ageing (CERA) aims to expand and share knowledge of human ageing, so that the health and quality of life of older people can be improved.

CERA is a joint facility of the University of Sydney, Sydney Medical School and Concord Repatriation General Hospital, a teaching hospital within the Sydney Local Health District. CERA is located at Concord Repatriation General Hospital in the inner west of Sydney, Australia.

### CERA's Research Programs

Research at CERA is concerned with the ageing process, and the disorders and diseases that are most likely to cause disability and reduced quality of life in old age. Our Research Program is multidisciplinary, linking laboratory, clinical, epidemiological and health services research. Allied to this are educational programs at basic and advanced level of practice in Geriatric Medicine, also other educational programs for aged care workers from a range of professional settings.

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## Wednesday 2 December 2015

08:00 – 16:30	<b>Registration desk open</b> Federation Foyer, Mezzanine Level			
08:30 – 09:30	<b>Japanese Pharmacological Society keynote address</b>			
	Room: Concert Hall			
	<b>Chair:</b> Prof Dominic Geraghty			
	<b>Transporters in pharmacology and molecular target drug discovery - 300</b> Prof Yoshikatsu Kanai, Osaka University, Graduate School of Medicine, Japan			
09:30 – 10:25	<b>Morning tea</b>			
	<b>Poster presentations:</b> Pharmacy Practice			
	Federation Ballroom			
10:30 – 12:30	<b>Symposium 9: An up-close look at novel targets for breast cancer</b>	<b>Symposium 10: Adverse drug reactions, is electronic prescribing a panacea?</b>	<b>Symposium 11: Novel approaches to drug safety: Beyond randomised controlled trials</b>	<b>Symposium 12: Denis Wade Johnson &amp; Johnson New Investigators</b>
	Room: Grand Ballroom 1	Room: Grand Ballroom 2	Room: Grand Ballroom 3	Room: Concert Hall
	<b>Chair:</b> Dr Angela Finch	<b>Chair:</b> Assoc Prof Darren Roberts	<b>Chair:</b> Dr Jenni Ilomäki	<b>Chair:</b> Prof Dominic Geraghty
10:30 – 11:00	<b>Morphine modulates breast cancer metastatic potential - 301</b> Assoc Prof Marie-Odile Parat, The University of Queensland	<b>The burden of adverse drug events in older people - 305</b> Assoc Prof Simon Bell, Monash University	<b>Balancing safety and quality of life. Listening to what consumers want. - 309</b> Ms Tara Quirke, Consumer Dementia Research Network, Alzheimer's Australia	<b>A small-molecule formyl peptide receptor (FPR) agonist limits myocardial reperfusion injury <i>in vivo</i>: Unmasking ligand-biased agonism as a novel cardioprotective mechanism - 313</b> Dr Chengxue Qin, Baker IDI Heart & Diabetes Institute
11:00 – 11:30	<b>Inflammation resolution mediators in breast cancer - 302</b> Prof Alastair Stewart, University of Melbourne	<b>The misdiagnosis of ADRs - 306</b> Assoc Prof Matt Doogue, Otago University	<b>Genetic screening for people at risk of adverse drug events: Costs vs benefits from the individual and societal perspective - 310</b> Prof Danny Liew, The University of Melbourne	<b>Adrenoceptors promote glucose uptake into adipocytes and muscle by an insulin-independent signalling pathway involving mTORC2 - 314</b> Dr Masaaki Sato, Monash University
11:30 – 12:00	<b>UDP-glucuronosyltransferases (UGTs) and steroid hormone regulation in breast cancer - 303</b> Dr Robyn Meech, Flinders University	<b>Adverse drug events: The cost-effectiveness of moving from paper to electronic systems - 307</b> Prof Johanna Westbrook, Australian Institute of Health Innovation, Macquarie University	<b>Non-experimental evaluation of medical products: Challenges and established approaches - 311</b> Assoc Prof Alan Brookhart, University of North Carolina	<b>Understanding biased signalling and allosteric modulation at the glucagon-like peptide-1 receptor - 315</b> Dr Denise Wootten, Monash University
12:00 – 12:30	<b>Development of a novel class of <math>\omega</math>-3-fatty acid epoxide analogues with <i>in vivo</i> activity against breast cancer - 304</b> Prof Michael Murray, The University of Sydney	<b>eSystems decision support, a panacea for ADRs? - 308</b> Dr Sepehr Shakib, Royal Adelaide Hospital	<b>Register-based pharmacoepidemiology – Insights from research using the Nordic prescription databases - 312</b> Dr Jenni Ilomäki, Monash University	<b>Essential roles of the store-operated calcium channel ORAI1 in the mammary gland - 316</b> Dr Felicity Davis, The University of Queensland; University of Cambridge
12:30 – 13:25	<b>Lunch</b> <b>Student poster finalists presentations</b>			
	Federation Ballroom			<b>12:55 – 13:25</b> <b>Urogenital &amp; Gastrointestinal SIG AGM</b>
				Room: Grand Ballroom 1



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Wednesday 2 December (cont'd)

13:30 – 15:00	Oral presentations 13: Urogenital & Gastrointestinal/ Neuro- & Behavioural Pharmacology	Oral presentations 14: Drug Disposition and Response	Oral presentations 15: Drug Discovery/ Pharmaceutical Science	Oral presentations 16: Education
	Room: Grand Ballroom 1	Room: Grand Ballroom 2	Room: Grand Ballroom 3	Room: Concert Hall
	<b>Chair:</b> Dr Betty Exintaris	<b>Chairs:</b> Dr Andrew Rowland; Dr David Foster	<b>Chairs:</b> Dr Andrew Crowe; Dr Felicity Davis	<b>Chair:</b> Assoc Prof Lynette Fernandes
13:30 – 13:45	<b>Calcium sensing receptor dysregulation in induced pluripotent stem cell derived podocytes from patients with Alport Syndrome - 317</b> Dr John Haynes, Monash University	<b>Optimal time course of antibiotic concentrations in combination dosage regimens is critical to combat difficult-to-treat 'superbugs' - 323</b> Dr Cornelia Landersdorfer, Monash University	<b>Inhibition of ocular neovascularization by gene delivery of calreticulin-derived peptide, vasostatin - 330</b> Dr Guei-Sheung Liu, Centre for Eye Research Australia	<b>A flipped-classroom blended approach to the teaching of pharmacology - 336</b> Prof Emilio Badoer, RMIT University
13:45 – 14:00	<b>The 5-HT<sub>3</sub> receptor C subunit modulates receptor function - 318</b> Assoc Prof Helen Irving, Monash University	<b>Investigation of salbutamol enantiomer deposition in epithelial lining fluid in horses - 325</b> Dr Glenn Jacobson, University of Tasmania	<b>Novel naphthoquinones against mitochondrial dysfunction-induced seizures - 331</b> Ms Monila Nadikudi, University of Tasmania	<b>Increasing pharmacists' capabilities to integrate into health care teams through successful interprofessional communication - 337</b> Dr Karen Luetsch, The University of Queensland
14:00 – 14:15	<b>The involvement of pannexin-1 channels and purinergic P2X7 receptors in cytokine-induced colitis in human colonic mucosa - 319</b> Miss Erica Diezmos, University of New South Wales	<b>A physiologically based pharmacokinetic model for long-circulating nanoparticles - 326</b> Dr Xiaowen Liang, The University of Queensland	<b>Preclinical pharmacological evaluation of CDK1-73 for treatment of acute myeloid leukaemia - 332</b> Ms Longjin Zhong, The University of South Australia	<b>Development of a practical class for third year neuropharmacology students using zebrafish to demonstrate the actions of antiseizure drugs - 338</b> Dr Nicole Jones, University of New South Wales
14:15 – 14:30	<b>Distinct effects of Zolpidem and Dual Orexin Receptor Antagonists in rats sleep-wake profile and EEG power spectrum - 320</b> Prof Daniel Hoyer, The University of Melbourne	<b>A physiologically based kinetic model for elucidating the <i>in vivo</i> fate of mesenchymal stem cells - 327</b> Dr Haolu Wang, The University of Queensland	<b>The involvement of fatty acid-binding protein 5 in the blood-brain barrier transport of docosahexaenoic acid and cognitive function - 333</b> Mr Yijun Pan, Monash University	<b>Pharmacy Simulator: A 3D computer-based virtual patient simulator for training community pharmacists - 339</b> Dr Ivan Bindoff, University of Tasmania
14:30 – 14:45	<b>Does chronic morphine treatment alter endogenous opioid function in the amygdala? - 321</b> Miss Gabrielle Gregoriou, The University of Sydney	<b>Drug and chemical glucosidation by untransfected Supersomes™ (u-SUP) and microsomes from <i>Spodoptera frugiperda</i> 9 (Sf9) cells - 328</b> Ms Nuy Chau, Flinders University	<b>Development and evaluation of oxaliplatin and irinotecan co-loaded liposomes for enhanced colorectal cancer therapy - 334</b> Prof Sanjay Garg, University of South Australia	<b>A collaborative approach to embedding cultural competence into the Bachelor of Pharmacy curriculum - 340</b> Ms Sandra Holmes, University of Tasmania
14:45 – 15:00	<b>Receptor dwell time determines bias towards internalisation of the <math>\mu</math> opioid receptor - 322</b> Mr Alexander Gillis, The University of Sydney	<b>Exemestane and its active metabolite 17-hydroexemestane up-regulate UDP-glucuronosyltransferase (UGT) 2B17 in breast cancer cells - 329</b> Miss Apichaya Chanawong, Flinders University	<b>Amber teething necklaces: Is there any basis to their use in teething infants? - 335</b> Dr Esther Lau, Queensland University of Technology	<b>Creating effective multimedia learning resources for the teaching of pharmacology - 341</b> Ms Chau Khuong, Monash University
15:00 – 15:15	<b>Short comfort break</b>			
15:15 – 16:15	<b>APSA lecture</b>			
	Room: Concert Hall			
	<b>Chair:</b> Assoc Prof Luke Bereznicki			
	<b>Academic life in the spotlight: Maximizing productivity and fulfillment - 342</b> Prof Shane Desselle, Touro University California, USA			
16:15 – 16:45	<b>Awards and close</b>			
	Room: Concert Hall			

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