

Scientific Program

Sunday 7 December, 2014

09:30-19:00	Registration desk open				
10:00-13:00	ASCEPT Council Meeting	PGx Workshop (10:00 – 12:00)	Lipidic Cubic Phase (LCP) Workshop		
	Room: Clarendon Room C, Level 2	Room: Clarendon Room D, Level 2	Room: Clarendon Room E, Level 2		
		Chair: Prof Andrew Somogyi	Asst Prof Andrew Kruse, Department of Biological		
		Presenters: Dr Katie Leach, Monash University Prof Patrick Kwan, Royal Melbourne Hospital Assoc Prof Les Sheffield, GenesFX Health	Chemistry and Molecular Pharmacology, Harvard Medical School Supported by		
		Student/ECR short presentations			
		Pharmacogenomics SIG AGM	GeneWorks		
14:00-16:00	Clinical Pharmacology Workshop	Careers Workshop	Education Workshop		
	Room: Clarendon Room C, Level 2	Room: Clarendon Room D, Level 2	Room: Clarendon Room E, Level 2		
	Chair: Dr Ingrid Hopper	Chair: Dr Nicole Jones	Chair: Dr Anna-Marie Babey		
	Presenters: Dr Tilenka Thynne, Flinders Medical Centre Assoc Prof Matt Doogue, Otago University, New Zealand Dr Joel Iedema, Redland Hospital	Presenters: Dr Jane Bourke, Monash University Dr Tamara Paravicini, The University of Queensland; RMIT Dr Justin Hamilton, Australian Centre for Blood Diseases Dr Michelle Halls, Monash University	Presenters: Cindy O'Malley, RMIT University Dr David Foster, University of South Australia		
16:30-17:30	Opening session and plenary presentation				
	Room: Clarendon Auditorium, Level 2				
	Chair: Assoc Prof Peter Molenaar				
	Therapeutic agents and drug targets: GPCRs ar Prof Daniel Hoyer, The University of Melbourne	nd beyond, opportunities and challenges – 101			
17:30–19:00	Welcome Reception				
	Clarendon Auditorium foyer, Level 2, Melbourne Cor	vention and Exhibition Centre			

Monday 8 December, 2014

07:00-18:00	Registration desk open					
08:30-09:30	Plenary presentation: British Pharmacological Society visitor					
	Room: Clarendon Auditorium, Level 2					
	Chair: Assoc Prof Peter Molenaar					
	Translating G-protein coupled receptors from chen Dr Anthony Davenport, University of Cambridge, UK	nistry to clinic: Apelin and biased signalling in the c	ardiovascular system – 102			
	Sponsored by					
	WATER THE CONTRACTOR					
00 00 40 05	Manufacture of the cold in the		CIO manatham Tantanlama			
09:30–10:25	Morning tea with exhibitors Clarendon Auditorium foyer, Level 2		SIG meeting: Toxicology Room: Clarendon Room B, Level 5			
	Poster presentations: Drug Disposition and Response, C	linical Sponsored by	Nooni. Cialendon Nooni B, Level 3			
	Pharmacology, Drug Discovery, Pharmacoepidemiology		SIG meeting: Education Forum Room: Clarendon Room A, Level 5			
10:30–12:30	Symposium 1: Novel GPCR targets for the treatment of CVD	Symposium 2: Prescribing for people with dementia	Student 1 minute poster session			
	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5	Room: Clarendon Room B, Level 5			
	Chairs: Dr Lauren May; Dr Tamara Paravicini	Chair: Assoc Prof Simon Bell	Chair: Prof Dom Geraghty			
	Orphan GPCRs in the development of	The blood-brain barrier: Is it more of a barrier to	Student poster presenters will each give a 1 minute			
	cardiovascular disease – 103 Dr Nicola Smith, Victor Chang Cardiac Research Institute	CNS access in Alzheimer's disease? – 107 Dr Joseph Nicolazzo, Monash University	poster preview presentation to highlight the research be presented in their poster.			
	Targeting protease-activated receptors for	Prescribing considerations for people with dementia – 108	Themes: Education			
	prevention of arterial thrombosis: Current and	Assoc Prof Sarah Hilmer, University of Sydney	Toxicology			
	future approaches – 104 Dr Justin Hamilton, Monash University	Drug use in dementia: Patterns and outcomes	Neuro- and Behavioural Pharmacology Drug Discovery			
	Protecting the heart through opioid receptor activation – 105	 - 109 Assoc Prof Simon Bell, Monash University; Dr Danijela Gnjidic, University of Sydney 	MPGPCR			
	Dr Jason Peart, Griffith University	Patterns of drug use among people with				
	Formyl Peptide Receptors – Novel GPCR targets	dementia: A Nordic example – 110				
	for the treatment of cardiovascular diseases – 106	Assoc Prof Kristina Johnell, Karolinska Institutet and Stockholm University, Sweden				
	Assoc Prof Rebecca Ritchie, Baker IDI Heart and					
	Diabetes Institute Sponsored by	Supported by MONASH University				
		Centre for Medicine Use and Safety				
	and the second	Ability of older people with dementia or cognitive				
		impairment to manage medicine regimens - 111				
12:30–13:25	Lunch with exhibitors	Assoc Prof Susan Koch, Royal District Nursing Service	SIG meeting: Urogenital and Gastrointestinal			
	Clarendon Auditorium foyer, Level 2		Room: Clarendon Room B, Level 5			
	Poster presentations: Drug Disposition and Response, Clinical Pharmacology, Drug Discovery, Pharmacoepidemiology	Sponsored by CITY OF MELBOURNE				
13:30–15:30	Symposium 3: Education symposium: Micro to macro and back again	Symposium 4: Partners in crime: Regulation of cell signalling beyond GPCRs	Student 1 minute poster session			
	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5	Room: Clarendon Room B, Level 5			
	Chair: Dr Liz Davis	Chair: Dr Michelle Halls	Chair: Dr Ian Musgrave			
	Reflections on teaching complex concepts – 112	The role of GPCR signalling via dual kinase	Student poster presenters will each give a 1 minute			
	Prof Arthur Christopoulos, Monash University	receptor transactivation in cardiovascular disease – 115	poster preview presentation to highlight the research t be presented in their poster.			
	Teaching prescribing to undergraduate medical students – 113	Prof Peter Little, RMIT University	Themes:			
	Ms Anne Leversha, Monash University	Angiotensin II-mediated EGFR transactivation:	Cardiovascular			
	Unrecognisable transparency for quality and	Identify new signalling mediators important for tissue remodelling in cardiovascular disease and	Inflammation/respiratory Urogenital and Gastrointestinal			
	productivity and smarter education – 114 Prof Hamish Coates, University of Melbourne	cancer - 116	Pharmacogenomics			
	Panel discussion	Prof Walter Thomas, The University of Queensland	Pharmacoepidemiology Drug Disposition and Response			
	Sponsored by NAPE National Alliance for Pharmacy Education	Endosomal platforms for signaling pain – 117 Prof Nigel Bunnett, Monash University	Clinical Pharmacology			
	- 1 12 11 13 Phallacy Education	Delineating the dynamics of mu-opioid receptor				
	SYNONY STRING SYNONY STRINGS	signalling and regulation – 118 Dr Meritxell Canals, Monash University				
		Sponsored by				
		PerkinElmer* For the Better				
15:30–15:55	Afternoon tea with exhibitors		SIG meeting: Cardiovascular			
	Clarendon Auditorium foyer, Level 2		Room: Clarendon Room A, Level 5			
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	Discove					
	Sponsored by DiscoveRx					

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16:00–18:00	Oral presentations 1: Drug Disposition and Response/Pharmacogenomics/ Pharmacoepidemiology	Oral presentations 2: Drug Discovery	Symposium 5: ASCEPT Denis Wade Johnson & Johnson New Investigators
	Room: Clarendon Room A, Level 5	Room: Clarendon Room B, Level 5	Room: Clarendon Auditorium, Level 2
	Chair: Dr David Foster	Chair: Prof Patrick Sexton	Chair: Assoc Prof Peter Molenaar
16:00-16:15	UDP-glycosyltransferase 8 (UGT8) galactosidates bile acids and modulates FXR signalling – 123 Robyn Meech, Flinders University	Structure-activity analysis of biased agonism at the adenosine A ₃ receptor – 131 Jo-Anne Baltos, Monash University	Molecular insights into metabotropic glutamate receptor allosteric modulation – 119 Dr Karen Gregory, Monash University
16:15-16:30	Population pharmacokinetic modelling of colistin methanesulphonate and formed colistin in patients receiving intermittent haemodialysis – 124 Cornelia Landersdorfer, Monash University	Structure of the M ₄ muscarinic acetylcholine receptor and insights into its allosteric modulation – 132 David Thal, Monash University	
16:30-16:45	Extremes of body size in the dosing of high-dose methotrexate chemotherapy for non-Hodgkin lymphoma – 125 Geeta Sandhu, The University of Queensland	Ryanodine receptors: A novel target for cigarette smoking-related lung disease – 133 Chantal Donovan, University of Melbourne	Optimising medication use in people with dementia: Evidence and opportunities – 120 Assoc Prof Simon Bell, Monash University
16:45-17:00	Prostacyclin activates the IP-receptor to promote migratory behaviour in breast cancer cells that over-express cyclooxygenase-2 – 126 Sarah Allison, The University of Sydney	A novel single chain H2 relaxin analogue causes biased signalling at the Relaxin Family Peptide Receptor 1 – 134 Martina Kocan, Monash University	
17:00-17:15	Innate immune signalling genetics associated with cognitive dysfunction and adverse opioid effects in cancer pain patients on transdermal fentanyl – 127 Daniel Barratt, University of Adelaide	miR-126 regulation in a mouse model of laser- induced choroidal neovascularisation – 135 Amy Lee, University of Melbourne	Novel inhibitors of glycine transporters – 121 Dr Jane Carland, University of Sydney
17:15-17:30	A multistate model for the role of multiple medication use and Drug Burden Index in frailty state transitions and death: The CHAMP study – 128 Kris Jamsen, Monash University	The role of the extracellular vestibule in B2 adrenoceptor orthosteric and allosteric ligand interactions – 136 Erica Leonar, The University of New South Wales	
17:30-17:45	Prevalence of potential statin-drug interactions in frail and robust older inpatients – 129 Michele Thai, The University of Sydney	Beta2-adrenoceptor signalling promotes invasion of human breast cancer cells – 137 Cindy Pon, Monash University	Targeting synaptic adaptations in chronic pain – 122 Dr Wendy Imlach, University of Sydney
17:45-18:00	Psychotropic drug utilisation in older people in New Zealand from 2005 to 2013 – 130 Henry Ndukwe, University of Otago, New Zealand	Novel positive allosteric modulators of the delta opioid receptor – 138 Holly Yeatman, Monash University	



The Centre for Education and Research on Ageing (CERA) is a multidisciplinary Centre that 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 Sydney South West Area Health Service. 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 and is primarily funded by the National Health and Medical Research Council and the Australian Research Council.

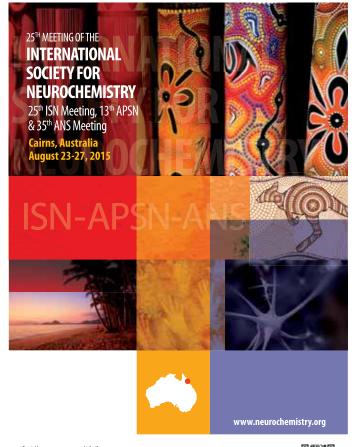
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Tuesday 9 December, 2014

Tuesday 9	December, 2014					
07:30-18:00	Registration desk open					
08:30-09:30	ASCEPT Plenary presentation					
	Room: Clarendon Auditorium, Level 2					
	Chair: Assoc Prof Peter Molenaar					
	From drug metabolism and Pharmacogenetics to diagnostics and drug discovery – 201 Prof Edith Sim, Kingston University and Department of Pharmacology, University of Oxford, UK					
09:30-10:25	Morning tea with exhibitors		SIG meeting: Drug Disposition and Response			
	Clarendon Auditorium foyer, Level 2		Room: Clarendon Room B, Level 5			
	Poster presentations: Cardiovascular, Inflammation/Respiratory,	Sponsored by COMPOLINDS				
	Education, Neuro- and Behavioural Pharmacology, Urogenital and Gastrointestinal, Pharmacogenomics, Toxicology	Sponsored by COMPOUNDS AUSTRALIA				
	and dastronnestinal, i harmacogonomics, toxicology					
10:30–12:30	Oral presentations 3: Clinical Pharmacology/Education	Symposium 6: Techniques to see into the	Symposium 7: Novel targets for stroke and			
	De con Changeles De con D. Lovel 5	world of GPCRs and beyond	brain repair			
	Room: Clarendon Room B, Level 5	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5			
10:30-10:45	Chair: Dr Andrew Dawson	Chair: Dr Angela Finch	Chairs: Dr Nicole Jones; Dr Brad Broughton			
10:30-10:45	Trough concentrations of infliximab and adalimumab, and anti-drug antibodies, correlate with drug response in	Fragment screening of GPCRs – 202 Dr Robert Cooke, Heptares Therapeutics, UK	Protective actions of ghrelin on cerebral vascular function and the brain post-stroke			
	inflammatory bowel disease – 210	bi Nobelt Gooke, Heptares Hierapeaties, ox	- 206			
	Murray Barclay, Christchurch Hospital, New Zealand		Dr Alyson Miller, RMIT University			
10:45-11:00	The ideal anticoagulant is a myth – 211 Stephen Duffull, University of Otago, New Zealand					
11:00-11:15	Neprilysin inhibitors preserve renal function in heart failure	Nanoscale Biophotonics, a window into the	Role of insulin-regulated aminopeptidase			
	- meta-analysis of randomised controlled trials - 212	body – 203	(IRAP) in mediating ischemic damage in the			
11:15-11:30	Ingrid Hopper, Monash University Insights into the pathophysiology of hyperuricaemia – 213	Assoc Prof Mark Hutchinson, University of Adelaide	brain – 207 Dr Vi Pham, Monash University			
11.10-11.30	Diluk Kannangara, St Vincent's Hospital		, , , , , , , , , , , , ,			
11:30-11:45	The influence of imatinib on disease progression in patients	The use of BRET to study receptor	Using Stem cells and targeting astrocytes to			
	with gastro-intestinal stromal tumour (GIST) - 214	complexes – 204	repair the injured brain after stroke – 208			
11 45 10 00	Shaun Kumar, St Vincent's Hospital	Assoc Prof Kevin Pfleger, The University of Western Australia	Dr Carli Roulston, University of Melbourne			
11:45-12:00	Piperacillin pharmacokinetics in intensive care unit patients with anuria and acute kidney injury receiving	Western Australia				
	sustained low efficiency diafiltration – 215					
	Mahipal Sinnollareddy, The Queen Elizabeth Hospital; University					
10.00.40.45	of South Australia					
12:00-12:15	Using peer-assisted learning in an Honours program to enhance student engagement and performance – 216	The emerging importance of receptor kinetics in drug discovery: What goes (k)on	Hypoxia-inducible factor – 1 (HIF-1) as a novel target for brain repair – 209			
	Barbara Kemp-Harper, Monash University	must come (k)off – 205	Dr Nicole Jones, University of New South Wales			
12:15-12:30	Learning styles and blended learning strategies for	Mr Darren Riddy, Monash University				
	teaching pharmacology – 217					
10 00 10 05	Roselyn Rose'Meyer, Griffith University		CIO			
12:30–13:25	Lunch with exhibitors		SIG meeting: Drug Discovery Room: Clarendon Room B, Level 5			
	Clarendon Auditorium foyer, Level 2 Poster presentations: Cardiovascular, Inflammation/Respiratory,		ROOM. Cidiendon Room B, Level 5			
	Education, Neuro- and Behavioural Pharmacology, Urogenital	Sponsored by Pfizer	SIG meeting: Pharmacoepidemiology			
	and Gastrointestinal, Pharmacogenomics, Toxicology		Room: Clarendon Room A, Level 5			
			The state of the s			
13:30–14:30	Molecular Pharmacology of GPCRs (MPGPCR) Opening plen	ary presentation				
	Room: Clarendon Auditorium, Level 2					
	Chair: Dr Chris Langmead					
	Single-molecule imaging of GPCR organization in living cells Prof Jonathan Javitch, Columbia University, USA	:: The agony and the ecstasy				
14:30–15:15	Oral presentations 4: Clinical Trainee/ Education	Oral presentations 5: Respiratory and	MPGPCR Symposium 1: ISN Symposium:			
		Inflammation/Urogenital and Gastrointestinal	GPCRs as CNS drug target			
	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5	Room: Clarendon Room B, Level 5			
	Chair: Assoc Prof Matt Doogue	Chairs: Assoc Prof Ross Vlahos; Dr Stavros	Chair: Prof Nigel Bunnett			
14:30-14:45	Antagonist actions at the N40D (A118G) polymorphism of	Selemidis Combining human bone marrow-derived	GPCR and beta-arrestins regulating gamma-			
	the human μ opioid receptor <i>in vitro</i> – 219	mesenchymal stem cells with an anti-fibrotic				
	Jonathan Brett, Royal Prince Alfred Hospital	more effectively reverses airway fibrosis in	Prof Bart De Strooper, University of Leuven,			
		an experimental model of chronic allergic airways disease – 227	Belgium			
11/15 15:00	Clinical use of an aminoglycoside ward-based Therapeutic	Matthew Shen, Monash University				
14:45-15:00	Drug Monitoring (TDM) service in a tertiary hospital – 220	Bronchodilator responsiveness is impaired				
	Maneesha Dedigama, Flinders Medical Centre	in a mouse model of COPD exacerbation –				
	Has the availability of new oral anticoagulants (NOACs)	Chantal Donovan, University of Melhourne				
15:00-15:15	changed the way older inpatients are selected for oral anticoagulation? – 221	Chantal Donovan, University of Melbourne				
	Nicholas Farinola, Royal Adelaide Hospital	TRPV4 mediates serotonin-induced oedema				
	, ,	in airway but not non-airway tissues - 229				
		Megan Grace, RMIT University				

15:15–15:40	Afternoon tea with exhibitors		
	Clarendon Auditorium foyer, Level 2		
15:45–17:00	Oral presentations 4: Clinical Trainee/ Education (continued)	Oral presentations 5: Respiratory and Inflammation/Urogenital and Gastrointestinal (continued)	MPGPCR Symposium 1: ISN Symposium: GPCRs as CNS drug target (continued)
	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5	Room: Clarendon Room B, Level 5
15:45-16:00	An audit of the use of hydroxychloroquine for the treatment of systemic lupus erythematosus – 222 Andrew Finch, Royal Brisbane Hospital	Microenviromental determinants of glucocorticoid responsiveness in airway smooth muscle – 230 Amanda Wong, University of Melbourne	Neuropeptide receptors as targets for relapse- prevention – 236 Prof Andrew Lawrence, The Florey Institute of Neuroscience
16:00-16:15	A case report of yttrium 90 microsphere dosimetry to estimate hepatic tolerance of subsequent lutetium 177-DOTA-octreotate therapy for metastatic neuroendocrine tumour – 223 Catherine Lucas, Royal Brisbane and Women's Hospital	Expression and distribution of the delta opioid receptor is altered in acute colitis – 231 Daniel Poole, Monash University	Role of metabotropic glutamate receptor 5 in neurodegenerative diseases – 237 Dr Stephen Ferguson, Robarts Research Institute; University of Western Ontario, Canada Novel approaches to the modulation of opioid receptor signaling: Implications for antinociception – 238
16:15-16:30	Implementation of a formalised medication review protocol applied to older general medical patients – 224 Mitchell McKean, Princess Alexandra Hospital	A polar compound present in stinging nettle leaf extract inhibits the purinergic component of contractility in the rat prostate gland – 232 Nicole Eise, Monash University	Dr John Traynor, University of Michigan (Symposium finishes at 17:45)
16:30-16:45	Warfarin-associated spontaneous haemarthrosis following use of complementary and alternative medicines – 225 Brendan Ng, Capital and Coast District Health Board, New Zealand	The effectiveness of current and emerging pharmacotherapy in a new model of human prostatic smooth muscle tone – 233 Basu Chakrabarty, Monash University	Sponsored by ISN
16:45-17:00	Assessing patient knowledge and education techniques in order to improve safety with warfarin therapy: A review of the literature – 226 Basia Diug, Monash University	Developing kidney damage models using induced pluripotent stem cells from patients with inherited kidney disease – 234 John Haynes, Monash University	
17:15-18:15	ASCEPT Annual General Meeting		
	Clarendon Auditorium, Level 2		
19:30-22:30	Meeting dinner (pre-dinner drinks from 19:00)		
	Cargo Hall, 35 South Wharf Promenade, South Wharf		





British Journal of

Pharmacology







Wednesday 10 December, 2014

08:00–17:00	O Registration desk open				
08:30-09:30	Plenary presentation: ASCEPT Lecture				
	Clarendon Auditorium				
	Chair: Assoc Prof Peter Molenaar				
	Controlling signalling of class B G protein-coupled Prof Patrick Sexton, Monash Institute of Pharmaceutical				
09:30–10:25	Morning tea with exhibitors		SIG meeting: Neuropharmacology		
	Clarendon Auditorium foyer, Level 2		Room: Clarendon Room B, Level 5		
	Poster presentations: MPGPCR				
	ASCEPT student poster prize session		SIG meeting: Clinical Pharmacology		
	Sponsored by HEPTARES therapeutics		Room: Clarendon Room A, Level 5		
10:30–12:30	Oral presentations 6: ASCEPT Garth McQueen Oral Prize	MPGPCR Symposium 2: GPCRs in Cardio- Metabolic Disorders	Symposium 8: Cardiac safety vs efficacy: Focus on heart failure		
	Room: Clarendon Room B, Level 5	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5		
	Chair: Dr Nicole Jones	Chair: Prof Roger Summers	Chairs: Dr Felicity Grzemski; Assoc Prof Rebecca Ritchie		
10:30-10:45	AT ₄ Receptor/Insulin Regulated Aminopeptidase (IRAP): A target for protection in cardiovascular disease – 311	Modulation of class B GPCR pharmacology by RAMPs: Insights from adrenomedullin and amylin receptors – 302	Applying pharmacology principles to target selection and target safety assessment – 305 Dr Sian Ratcliffe, Pfizer Inc, USA		
10:45-11:00	Huey Wen Lee, Monash University	Dr Debbie Hay, University of Auckland, New Zealand	Development of new in silico methods for		
10:45-11:00	Biased agonism in the 4 th dimension: The contribution of binding kinetics to the bias profile of antipsychotic drugs at the dopamine D ₂	A function for bitter taste receptors in human heart – 303 Prof Walter Thomas, The University of Queensland	assessing the pro-arrhythmic risk of drugs – 306 Prof Jamie Vandenberg, Victor Chang Cardiac Researc Institute		
	receptor – 312	New GPCR targets for fibrosis: Relaxin family	Development of cardiac failure models as		
11:00-11:15	Carmen Klein Herenbrink, Monash University A switched on receptor – a role for adenosine A _{2B} receptor constitutive activity in cancer cell proliferation – 313	peptide receptor 1 (RXFP1)-angiotensin II (AT) receptor heterodimers – 304 Assoc Prof Chrishan Samuel, Monash University	translational pharmacology models for diabetic cardiomyopathy and diastolic heart failure – 30 Assoc Prof Rebecca Ritchie, Baker IDI Heart and Diabetes Institute		
11:15-11:30	Elizabeth Vecchio, Monash University The effect of ageing on isoniazid pharmacokinetics and hepatotoxicity in Fischer		In silico prediction of Ames mutagenicity based on molecular descriptors – 308 Dr Slade Matthews, The University of Sydney		
	344 rats – 314 John Mach, Kolling Institute of Medical Research		Augmented Caveolin 3 in cardiomyocytes limits age-related ischemic intolerance: Scaffolding		
11:30-11:45	Bladder sensory nerve activity is enhanced by the cytotoxic drugs cyclophosphamide and ifosfamide – 315		hypothesis of aging – 309 Dr Melissa Reichert, The University of Queensland		
	Kylie Mills, Bond University		Endogenous Annexin-A1 (ANX-A1) is cardioprotective against myocardial		
11:45-12:00	Serelaxin signalling in human primary vascular cells: G-proteins and their location determines the shape of the concentration-response relationship – 316		infarction(MI) in mice in vivo – 310 Siobhan Finlayson, Baker IDI Heart and Diabetes Institute Panel discussion		
	Mohsin Sarwar, Monash University				
12:00-12:15	Healthcare practitioners' perspectives on prescribing and deprescribing anticholinergic and sedative medications in older adults – 317 Lisa Kouladjian, University of Sydney		Sponsored by BJP		
12:15-12:30	Quantification of the forgiveness of drugs to imperfect adherence – 318 Piyanan Assawasuwannakit, University of Otago, New Zealand				
12:30–13:25	Lunch with exhibitors		SIG meeting: Inflammation/respiratory		
	Clarendon Auditorium foyer, Level 2		Room: Clarendon Room B, Level 5		
	Poster presentations: MPGPCR				
	ASCEPT student poster prize session				
	Sponsored by				
	MONASH University				

program continued on page 8



Research Platforms in Drug Discovery

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13:30–15:30	Oral presentations 7: Neuro-Behavioural/ Toxicology	Oral presentations 8: Cardiovascular	MPGPCR Symposium 3: GPCRs in pain and inflammation		
	Room: Clarendon Room B, Level 5	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5		
	Chair: Dr Mark Hutchinson	Chairs: Prof Chris Sobey; Prof Rob Widdop	Chair: Dr Meri Canals		
13:30-13:45	Auditing adulterants: Toxicological assessment of herbal medicines sold in Australia during 2014 – 331 Claire Hoban, University of Adelaide	Targeting G protein-coupled estrogen receptor in stroke – 319 Brad Broughton, Monash University	Protease-activated-receptor signaling in the airway: The good, the bad and the proinflammatory – 327 Prof Kathryn DeFea, UC Riverside		
13:45-14:00	The effect of Saxitoxin on the differentiation of D3 embryonic stem cells into a neural lineage – 332 Katie O'Neill, University of Adelaide	Role for endothelial cell mineralocorticoid receptors in aldosterone-induced oxidative stress and inflammation in the brain – 320 Sophocles Chrissobolis, Monash University	Opioid Bias Receptor Signaling and Regulation B-Arrestin1/2 Selectivity – 328 Dr Chris Evans, UCLA, USA Developing opioid receptor signalling bias for		
14:00-14:15	Resveratrol and SIRT1 do not protect against paracetamol toxicity – 333 Alice Kane, Kolling Institute of Medical Research	CC Chemokine receptor 2 inhibition exacerbates stroke outcome in a mouse model of Transient Middle Cerebral Artery Occlusion – 321 Hannah Chu, Monash University	improved pain relief – 329 Prof MacDonald Christie, The University of Sydney		
14:15-14:30	Muscarinic acetylcholine M ₄ receptor regulation of psychosis-like behaviours induced by a dopamine D ₁ receptor-selective agonist in mice – 334 Amy Nae-Yng Chen, Monash University	Coenzyme Q_{10} protects the heart against diabetes-induced diastolic dysfunction and structural remodelling in mice with diminished phosphoinositide 3-kinase p110 α (Pl3K) signalling – 322 Miles De Blasio, Baker IDI Heart and Diabetes Institute	Sponsored by MONASH University Institute of Pharmaceutical Sciences		
14:30-14:45	PITX3-eGFP dopaminergic neurons derived from human pluripotent stem cells: a versatile system for neurodegenerative modelling – 335 John Haynes, Monash University	The DPP-4 inhibitor linagliptin and the GLP-1 receptor agonist exendin-4 prevent high glucose-induced impairment of endothelial function in rat mesenteric arteries – 323 Salheen Salheen, RMIT University			
14:45-15:00	Functional expression of TRPV4 by satellite glial cells of mouse dorsal root ganglia – 336 Pradeep Rajasekhar, Monash University	PDE3 and PDE4 reduce the occurrence of B ₂ - and B ₁ -adrenoceptor mediated spontaneous contractions in isolated human right ventricular trabeculae from patients with terminal heart failure – 324 Peter Molenaar, Queensland University of Technology			
15:00-15:15	Exploring the synthetic cannabinome: Actions of PB-22 and 5F-PB-22 – 337 Jordyn Stuart, Macquarie University	Phosphoinositide 3 kinase (p110α) gene therapy attenuates diabetic cardiomyopathy in mice – 325 Darnel Prakoso, Baker IDI Heart and Diabetes Institute			
15:15-15:30	Ghrelin receptor agonists to limit tissue loss after spinal cord injury – 338 Kevin Dong, University of Melbourne	Cardiac dysfunction and ischaemic intolerance in murine type II diabetes mellitus is reversed by sustained ligand-activated preconditioning – 326 Louise See Hoe, Griffith University			
15:30–15:55	Afternoon tea with exhibitors				
	Clarendon Auditorium foyer, Level 2				
16:00–16:40	ASCEPT Awards	MPGPCR Keynote presentation			
	Room: Clarendon Auditorium, Level 2	Room: Clarendon Room A, Level 5			
		Chair: Dr Chris Langmead Hypothalamic neurons regulate blood glucose Prof Michael Cowley, Monash Obesity and Diabetes Institute – 330			
16:40–18:00	MPGPCR Symposium 4: Early career research foru				
	Room: Clarendon Room A, Level 5				
	Chair: Prof Steven Charlton				
	Structural basis for activation and allosteric modu	lation of a muscarinic acetylcholine receptor – 339			

Asst Prof Andrew Kruse, Harvard Medical School, USA

Exploring Peptide Agonist-Specific Activity at the Glucagon-like Peptide-1 Receptor (GLP-1R) – 340

Dr Cassandra Koole, The Rockefeller University, USA

Allosteric activation of the M₁ muscarinic receptor rescues the cognitive deficit in prion neurodegenerative disease in mice – 341 Dr Sophie Bradley, MRC Toxicology Unit, University of Leicester

Development of novel tools to target drugs to internalised receptors – 342

Dr Nick Veldhuis, Monash University

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ASCEPT - APSA JOINT SCIENTIFIC MEETING 2015

29 November - 2 December 2015 Hotel Grand Chancellor Hobart





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Development and

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M8 Alliance

Thursday 11 December, 2014

Thursday	11 December, 2014		
08:00-17:00	Registration desk open		
08:30-09:30	Room: Clarendon Auditorium, Level 2		
	MPGPCR Symposium 5: MPGPCR BPS Student Oral Prize		
	Chair: Dr Karen Gregory	Sponsored by	BRITISH
08:30-08:45	GPR37L1: An orphan G protein-coupled receptor with constitutive activity modulated by novel metalloprotease-mediated N-terminal cleavage – 401 James Coleman, Victor Chang Cardiac Research Institute		PHARMACOLOGICAL SOCIETY
08:45-09:00	Identification of the mechanisms which govern allosterism at the dopamine D ₂ receptor – 402 Christopher Draper-Joyce, Monash University		
09:00-09:15 09:15-09:30	Structural basis for G protein-mediated high-affinity agonist binding to GPCRs – 403 Jacob Mahoney, University of Michigan, USA		
07.13-07.30	Allosteric modulation of the mu opioid receptor – 404 Kathryn Livingston, University of Michigan, USA		
09:30-10:10	MPGPCR Symposium 6: Structure-function of GPCRs		
	Chair: Prof Patrick Sexton	Sponsored by	
	Allostery in GPCR biology: Form, function and potential therapeutics – 405 Prof Roger Sunahara, University of Michigan, USA	oponsorou by	anatrace
10:10-10:35	Morning tea with exhibitors		
	Clarendon Auditorium foyer, Level 2		
10:40-12:40	MPGPCR Symposium 6: Structure-function of GPCRs (continued)		
10:40-11:20	Conformational dynamics in the allosteric regulation of B_2 -adrenergic receptor signaling – 406 Prof R. Scott Prosser, University of Toronto, Canada	Sponsored by	
11:20-12:00	Exploring GPCR ligand interactions through structural and biophysical studies – 407 Dr Robert Cooke, Heptares Therapeutics, UK		ueb
12:00-12:40	Crystal structure of rhodopsin bound to arrestin determined by femtosecond X-ray laser – 408 Prof Eric Xu, Institute of Materia Medica, Shanghai		
12:40-13:25	Lunch with exhibitors	Sponsored by	INIV/IONI
	Clarendon Auditorium foyer, Level 2		Targeting inflammation
13:30–15:30	MPGPCR Symposium 7: Signalling in space and time		
	Chair: Dr Rob Lane	Sponsored by	10 10 10 10 10 10 10 10 10 10 10 10 10 1
13:30-14:10	GPCR-G protein signaling from endosomes – 409 Prof Mark von Zastrow, The University of California, San Francisco	oponsored by	MONASH University
14:10-14:50	Receptor localisation shapes the spatiotemporal dynamics of GPCR signalling – 410 Dr Michelle Halls, Monash University		
14:50-15:30	From biochemistry to molecular imaging of GPCRs – 411 Prof Martin Lohse, University of Wurzburg, German		
15:30–15:55	Afternoon tea with exhibitors		
	Clarendon Auditorium foyer, Level 2		
16:00–18:00	MPGPCR Symposium 8: Chemical Biology and Mechanistic Pharmacology		
47.00.67.10	Chair: Prof Arthur Christopoulos		
16:00-16:40	A new approach to treat ischaemic heart disease: Adenosine receptor biased agonism – 412 Dr Lauren May, Monash University		
16:40-17:20	Dualsteric GPCR modulators with engineered efficacy to fine-tune muscarinic receptor signaling – 413 Prof Klaus Mohr, University of Bonn, Germany		
17:20-18:00	Observed drug-receptor association rates are strongly influenced by membrane affinity: The importance of establishing micro PK/PD relationships – 414 Prof Steven Charlton, The University of Nottingham, UK		
18:00-18:30	MPGPCR Awards and close		

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Exhibitors

























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