

Scientific program

as at 23 November 2020
program is subject to change
refers to abstract number

Thank you to our sponsors

Principal sponsor

Bb Bellberry Limited
supporting research and ethics

Platinum sponsors



Gold sponsors



Silver sponsors



Bronze sponsors



Tuesday 24 November 2020 | 12.00 – 5.15 pm Australian Eastern Daylight Time (AEDT)

12.00 – 12.46 Conference opening

Dr Danijela Gnjidic, ASCEPT President
Assoc Prof Joseph Nicolazzo, APSA President
Dr Dan Wright, ASCEPT Co-chair
Dr Jonathan Penm, APSA Co-chair

Opening keynote presentation

Chair: Prof Kevin Pflieger, The University of Western Australia

Sponsored by

Molecular phenomic and systems medicine approaches to healthcare in a COVID-19 dominated world - 100

Prof Jeremy Nicholson, Murdoch University, Perth

Bb Bellberry Limited
supporting research and ethics

12.48 – 1.08 Concurrent session

Meet the speaker discussion group with Prof Jeremy Nicholson
Facilitator: Prof Kevin Pflieger, The University of Western Australia
(20 pre-registered participants)

Time to view posters and visit the sponsors portal

1.08 – 1.14 Mini break

1.15 – 2.15 Concurrent symposium sessions

Symposium 1: Communicating science in an age of uncertainty

Sponsored by



Symposium 2: Peptide therapeutics

Sponsored by



Symposium 3: Novel approaches to solving the antibacterial resistance crisis: TB and Malaria

Chair: Dr Ian Musgrave, University of Adelaide

Chairs: Prof Ross Bathgate, Florey Institute of Neuroscience and Mental Health, and Dr Martina Kocan, The University of Melbourne

Chair: Assoc Prof Lisa Kaminskas, The University of Queensland

Frankenfood and factory farms: Lessons from communicating science in agriculture - 101
Dr Heather Bray, University of Western Australia

Structure and dynamics of class B1 G protein-coupled receptors - 105
Prof Patrick Sexton, Monash University

Rational design of 'resistance resistant' anti-tuberculosis drugs - 109
Assoc Prof David Ascher, Baker institute/ Bio21

Communicating science in an age of uncertainty: The foam and the fury – PFAS and possible risk of cancer - 102
Prof Nicholas Buckley, The University of Sydney

Discovery and development of novel amylin agonists for obesity and diabetes - 106
Prof Debbie Hay, University of Auckland, New Zealand

Therapeutic drug monitoring in tuberculosis - 110
Prof Jan-Willem C. Alffenaar, The University of Sydney

Communicating vaccine risk in the age of COVID-19, lessons from communicating toxicological fears to vaccine refusers - 103
Dr Ian Musgrave, University of Adelaide

Fluorescence imaging of peripheral nerves by a Nav1.7-targeted inhibitory cystine knot peptide - 107
Assoc Prof Christina Schroeder, National Cancer Institute, USA

Bromodomain proteins as potential malaria drug targets - 111
Dr Michael Duffy, Melbourne University

Communicating quality use of medicines during COVID-19 - 104
Assoc Prof Darren Roberts, University of New South Wales

Unique mechanisms of GPCR biased signalling by peptidomimetic agonists of the relaxin receptor RXFP1 - 108
Prof Ross Bathgate, Florey Institute of Neuroscience and Mental Health

Panel discussion

Panel discussion

Panel discussion

2.15 – 2.29 Coffee break

Tuesday 24 November 2020 program continued over page

Tuesday 24 November 2020 *continued*

2.30 – 3.50 Concurrent oral sessions			
Oral presentations 1: Education	Oral presentations 2: Oncology	Oral presentations 3: Toxicology and medicines-related harm	Oral presentations 4: Drug Discovery
Chair: Dr Sarira El-Den, The University of Sydney	Chair: Dr Anna-Marie Babey, University of New England	Chair: Dr Rachael Farrington, The University of Adelaide	Chair: Dr Katie Leach and Dr Lauren May, Monash University
Interprofessional student-led Influenza Vaccination Clinic - 112 Prof Jane Hanrahan, The University of Sydney	Effect of phenethyl-isothiocyanate on human breast cancer cells MDA-MB-231 and MCF-7 - 117 Dr Suong Ngo, The University of Adelaide	Exploring the TRAIL of doxorubicin-induced cardiotoxicity - 122 Ms Michelle Sims, University of Adelaide	Characterising G protein coupling of angiotensin II and bradykinin receptor heteromers using mini G proteins - 127 Dr Elizabeth Johnstone, Harry Perkins Institute of Medical Research
Learning on the run – Pharmacy educators' experiences with the Australian Pharmacy Residency Program - 113 Mr Chih Yuan (Jason) Wang, The University of Queensland	Androgen regulated UDP-glucuronosyltransferases (UGT) 2B11 and 2B28 are prognostic indicators in luminal androgen receptor positive/molecular apocrine breast cancer - 118 Assoc Prof Robyn Meech, Flinders University	The prevalence of medication-related hospital admissions in Australia: A systematic review and meta-analysis - 123 Miss Isabelle Gillooly, The University of Sydney	A new pertussis toxin-like protein complex as a tool for investigation of GPCR-Gαi and Gαq signalling - 128 Mr Alastair Keen, Monash University
How do consumers interact with pharmacy students in educational settings? A systematic review. - 114 Mr William Nguyen, The University of Sydney	A preliminary study on the anti-melanoma effect of novel resveratrol nanoparticle formulations - 119 Dr Yan Jing Yee, Curtin University	National suicide prevention strategies by reducing access to poisons: A systematic review - 124 Miss Jessie Lim, The University of Sydney	Differential G protein activation kinetics may underpin the beneficial aspects of clinically trialled adenosine A1 receptor atypical agonists - 129 Ms Samantha McNeill, Monash University
Preparation for practice – Implementation of an eBootcamp interactive prescribing series of workshops for final year medical students - 115 Assoc Prof Kellie Charles, The University of Sydney	Triple negative breast cancer: Screening for the invasion amplifying cAMP-calcium feedforward loop mechanism - 120 Mr Terrance Lam, Monash University	Harm from cardiovascular medications: The omitted 'C' - 125 Miss Charidia Paradissis, The University of Queensland	The structural basis for the UDP-sugar selectivity of human UDP-glycosyltransferase 2B7 (UGT2B7): A combined computational and experimental approach - 130 Dr Pramod Nair, Flinders University
Can multiple choice questions examine application of knowledge in online assessments? - 116 Dr Suong Ngo, The University of Adelaide	The role of UGT enzymes as novel modulators of lipid biosynthesis and SREBP signalling in breast cancer - 121 Mr Jai Meyers, Flinders University	The prevalence and characteristics of psychotropic-related hospitalisations in older people: A systematic review and meta-analysis - 126 Ms Ilsa Wojt, The University of Sydney	Characterisation of the G protein coupling profiles of PAC1 receptor splice isoforms - 131 Miss Jessica Lu, Monash University

3.50 – 3.59 Mini break

4.00 – 4.30 British Pharmacological Society keynote presentation

Chair: Dr Danijela Gnjdjic, The University of Sydney

Sponsored by

The use of AI to enhance the success and efficiency of drug discovery and development - 132
Prof Jackie Hunter, Board Director, BenevolentAI, UK



4.31 – 5.15 Concurrent session

Meet the speaker discussion group with Jackie Hunter Facilitator: Dr Danijela Gnjdjic, The University of Sydney (20 pre-registered participants) 4.31 – 4.51pm only	It's rarely black and white - developing tolerance of uncertainty in our students Assoc Prof Elizabeth Davis (20 pre-registered participants)	Asking the hard questions - what are we doing to make diversity and inclusion matter? Assoc Prof Tina Hinton (20 pre-registered participants)	Get social - how social media can help maximise the reach and impact of our research Dr Arisbel Batista Gondin (20 pre-registered participants)	Networking event—'speed dating' style from 4.31 – 5.01pm	Time to view posters and visit the sponsors portal
---	--	--	--	---	---

Wednesday 25 November 2020 | 12.00 – 6.00 pm Australian Eastern Daylight Time (AEDT)

10.00 – 11.00 The 54th Annual General Meeting of ASCEPT

Via zoom- please contact ASCEPT Executive Officer Katie Roberson at ascept@ascept.org for zoom link.

11.00 – 12.00 2020 APSA Annual General Meeting

Zoom meeting link has been emailed to APSA members. Enquiries: apsa.general@outlook.com.

9.00 – 11.59 Time to view posters and visit the sponsors portal

Sponsored by



12.00 – 12.42 Concurrent session

ASCEPT Early Achievement Award for Women

Chair: Dr Danijela Gnjidic, The University of Sydney

Plant with the scorpion sting: Pharmacology of Australia's most venomous plant "Gympie-Gympie" - 200

Dr Jennifer Deuis, The University of Queensland

ASCEPT Gillian Shenfield Early Educator Award

Chair: Assoc Prof Elizabeth Davis, Monash University

An adaptive e-tutorial for development of critical appraisal skills - 201

Dr Eryn Werry, The University of Sydney

Pharmaceutical Society of Australia (PSA) sponsored lecture (12.00 – 12.30)

Chair: Dr Janet Sluggett, University of South Australia

Global solutions to global challenges- prioritising our efforts - 202

Prof Parisa Aslani, The University of Sydney

Sponsored by



12.45 – 2.20 Concurrent oral sessions

ASCEPT Garth McQueen student oral prize

Oral presentations 5: Clinical Pharmacology

Sponsored by



Oral presentations 6: Respiratory and Cardiovascular Pharmacology

Oral presentations 7: Pharmacy Practice

Chairs: Dr Nicola Smith, University of New South Wales, and Dr Carl White, University of Western Australia

Chair: Dr David Liew, Austin Health

Chair: Assoc Prof Stavros Selemidis, RMIT University, and Mr Charlie Cohen, Baker Heart and Diabetes Institute

Chair: Dr Sara McMillan, Griffith University

Biased negative allosteric modulators for the calcium-sensing receptor have differential bronchodilator and bronchoprotective effects in mouse precision cut lung slices - 203
Miss Jiayin Diao, Monash University

Predictive performance of population pharmacokinetic models for tacrolimus in lung transplant recipients - 209
Ms Rani Singh, University of New South Wales

Apocynin ameliorates cigarette smoking-induced loss of skeletal muscle mass and function by preserving protein synthesis signalling - 215
Dr Stanley Chan, RMIT University

The psychosocial and work related impacts of the COVID-19 pandemic on Australian Pharmacists - 221
Mrs Karlee Johnston, Australian National University

Effects of ABC transporter modulation on olanzapine entry into the developing brain - 204
Miss Yifan Huang, The University of Melbourne

Intracellular enzymatic activation of 4-hydroxycyclophosphamide in leukocytes - 210
Mr Minghan Yong, University of Auckland

Spatial reference memory impairment is augmented in hypertensive mice following stroke - 216
Dr David Wong Zhang, La Trobe University

Do pharmacy practice standards effectively describe behaviour? Reviewing practice standards using a behavioural specificity framework. - 222
Ms Deanna Mill, University of Western Australia

Evaluation of a combination therapy that provides broad renoprotection against DOCA/salt-induced hypertension - 205
Ms Yifang Li, Monash University

The influence of haemostatic system maturation on the dose-response relationship of unfractionated heparin - 211
Mr Abdallah Derbalah, University of Otago

Relaxin inhibits matrix remodelling of collagen gels by asthmatic fibroblasts - 217
Dr Maggie Lam, Monash University

Expanding primary health care pharmacy practice in Aotearoa New Zealand: Testing theories using a realist-informed approach - 223
Dr Caroline Morris, University of Otago

Cigarette smoking does not worsen skeletal muscle contractile function or loss caused by acute viral infection in mice - 206
Mr Kevin Mou, RMIT University

Towards precision dosing of vancomycin in critically ill patients: Evaluating predictive performance of pharmacometric models in Intensive Care Unit patients - 212
Mr Christopher Cunio, University of New South Wales

Anandamide-induced vasodilatation in normotensive and hypertensive rats - 218
Ms Daria Kornienko, The University of Melbourne

Interprofessional collaboration of general practice pharmacists in the Australian Capital Territory - 224
Mrs Thilini Sudeshika, University of Canberra

Wednesday 25 November 2020 *continued*

<p>Deletion of orphan GPCR, GPR37L1, alters autonomic control of cardiovascular homeostasis in mice - 207</p> <p>Ms Margaret Mouat, University of New South Wales</p>	<p>Circulating intestinal fatty acid binding protein and gastrointestinal toxicity in Russell's Viper envenomation - 213</p> <p>Dr Varan Perananthan, Royal Prince Alfred Hospital</p>	<p>The pro-resolving lipid mediator lipoxin A4 protects against inflammation in diabetic cardiomyopathy - 219</p> <p>Ms Ting Fu, The University of Melbourne</p>	<p>Pharmacists' roles in supporting people living with severe and persistent mental illness: A systematic review - 225</p> <p>Ms Ricki Ng, The University of Sydney</p>
<p>The nitroxyl donor Angeli's salt circumvents nitric oxide resistance in the insulin-resistant diabetic myocardium - 208</p> <p>Ms Anida Velagic, Monash University</p>	<p>Quality analysis of commercially available <i>Annona muricata</i> leaf products - 214</p> <p>Ms Wai Jo Jocelin Chan, The University of Sydney</p>	<p>Ebselen prevents cigarette smoke-induced cognitive impairment in mice - 220</p> <p>Dr Simone De Luca, RMIT University</p>	<p>Are Australian community pharmacists engaging in mental health promotion? - 226</p> <p>Mr Oliver Watt, University of South Australia</p>

2.20 – 2.49 Coffee break

2.50 – 3.20 Concurrent session

ASCEPT lecture

Chair: Dr Danijela Gnjidic, The University of Sydney

Translational studies in geriatric pharmacology: Contributing to the global challenge of ageing well - 227

Prof Sarah Hilmer, Royal North Shore Hospital; The University of Sydney

APSA lecture

Chair: Assoc Prof Joseph Nicolazzo, Monash University

Giving/taking/matching/diversifying/translating/amplifying – Is collaboration worth it? - 228

Prof Tina Brock, Monash University

Sponsored by



3.21 – 3.41 Concurrent session

Time to view posters and visit the sponsors portal

Meet the speaker discussion group with Prof Tina Brock

Facilitator: Assoc Prof Joseph Nicolazzo, Monash University

(20 pre-registered participants)

3.41 – 3.49 Mini break

3.50 – 5.10 Concurrent oral sessions

Oral presentations 8:

Pharmacoepidemiology—Drugs and ageing

Sponsored by



Chair: Dr Lisa Kalisch Ellett, University of South Australia

Outcomes of discontinuing anticholinergic medications in people living with dementia: A systematic review - 229

Dr Nagham Ailabouni, University of South Australia

Oral presentations 9: Neuro- & Urogenital Pharmacology

Chair: Dr Jennifer Deuis, The University of Queensland

Differential sleep/wake response and sex effects following acute suvorexant, MK-1064 and zolpidem administration in the rTg4510 mouse model of tauopathy - 234

Mr Ryan Keenan, The University of Melbourne

Oral presentations 10: Drug Delivery, Disposition & Response

Chair: Assoc Prof Cornelia Landersdorfer, Monash University

A safety, tolerability and pharmacokinetic study of a novel simvastatin silica-lipid hybrid formulation in healthy male participants - 239

Ms Tahlia Meola, University of South Australia

Oral presentations 11: Improving patient outcomes

Sponsored by



Chair: Assoc Prof Joy Spark, University of New England

"The lesser of two evils": Consumer perspectives on opioid deprescribing and the development of opioid deprescribing guidelines - 244

Ms Aili Langford, The University of Sydney

Utilising MedicineInsight to promote quality of care among Australians with dementia: A national general practice dataset - 230

Dr Edwin Tan, The University of Sydney

Effects of β -estradiol on porcine distal ureteral contractility - 235

Dr Iris Lim, Bond University

Quantum dot nanomedicine formulations dramatically improve pharmacological properties and alter uptake pathways of metformin and nicotinamide mononucleotide in aging mice - 240

Dr Nicholas Hunt, The University of Sydney

A meta-analysis on outcomes of medication misadventure among people with cognitive impairment or dementia - 245

Ms Anum Saqib Zaidi, University of Tasmania

Wednesday 25 November program continued over page

Wednesday 25 November 2020 *continued*

Older adult and caregiver attitudes towards deprescribing: A systematic review - 231 Dr Kristie Weir, University of South Australia	Positive allosteric modulation of the M4 muscarinic acetylcholine receptor reverses MK-801 induced hyperlocomotion and sensorimotor gating deficits in mice - 236 Dr Emma van der Westhuizen, Monash University	Piperacillin/tazobactam plus tobramycin versus Pseudomonas aeruginosa in two in vitro infection models - 241 Miss Jessica Tait, Monash University	Development and validation of explicit criteria for identification of potentially inappropriate prescribing for people with type 2 diabetes mellitus - 246 Mr Mohammed Ayalew, University of New England
Improving acute care for people with dementia: Dementia Cohort in Acute caRE settings study (D-CARE) - 232 Dr Mouna Sawan, The University of Sydney	Utilizing mini-G protein biosensors and BRET to profile orexin receptor pharmacology - 237 Miss Natasha Dale, Harry Perkins Institute of Medical Research	The effect of caffeine intake on the renal clearance of calcium, sodium and creatinine in healthy adults - 242 Dr Hayley Schultz, University of South Australia	Duration of postoperative opioid use after hip or knee surgery: A systematic review and meta-analysis - 247 Miss Xinyi Wang, The University of Sydney
Tools to evaluate medication management for caregivers of people with dementia: A systematic review - 233 Miss Melissa Gench, The University of Sydney	Entry of valproate and lamotrigine into the developing brain - 238 Mr Samuel Toll, The University of Melbourne	The effect of chronic polypharmacy and monotherapy on drug pharmacokinetics in mice - 243 Dr John Mach, The University of Sydney	Supporting medication adherence in the Maori and Pacific Islander Community with Type 2 Diabetes in Australia - 248 Mrs Natasha Taufatofua, The University of Queensland

5.10 – 5.14 Mini break

5.15 – 6.00 Concurrent session

It's rarely black and white - developing tolerance of uncertainty in our students Assoc Prof Elizabeth Davis (limited to 20 pre-registered participants)	Asking the hard questions - what are we doing to make diversity and inclusion matter? Assoc Prof Tina Hinton (limited to 20 pre-registered participants)	Get social - how social media can help maximise the reach and impact of our research Dr Arisbel Batista Gondin (limited to 20 pre-registered participants)	Networking event—'speed dating' style from 5.15 – 5.45pm	Time to view posters and visit the sponsors portal
---	---	---	---	---

Thursday 26 November 2020, 12.00 – 4.00 pm Australian Eastern Daylight Time (AEDT)

9.00 – 11.59 Time to view posters and visit the sponsors portal

12.00 – 1.25 Concurrent session

Certara New investigator award

Sponsored by



APSA Emerging Leaders session

Chair: Dr Danijela Gnjidic, The University of Sydney

Understanding the imprecision of precision dosing - 300

Dr Sophie Stocker, The University of Sydney

Chair: Assoc Prof Joseph Nicolazzo, Monash University

Implementation and evaluation of a virtual pharmacy Objective

Structured Clinical Examination (OSCE) - 304

Dr Vivienne Mak, Monash University

Novel BRET approaches to understand the complexities of endogenous GPCR function - 301

Dr Carl White, University of Western Australia

Pharmacist-led intervention using a web-based tool to reduce high-risk medication use in older in-patients - 305

Dr Emily Reeve, University of South Australia

Rational design of dose individualisation strategies for 5-Fluorouracil (5-FU) - 302

Dr Stephanie Reuter Lange, University of South Australia

Understanding the mechanisms behind the oral bioavailability enhancement of abiraterone acetate by silica-lipid hybrid formulations - 306

Dr Hayley Schultz, University of South Australia

Concomitant proton pump inhibitor use and survival in patients with advanced cancer treated with atezolizumab - 303

Dr Ashley Hopkins, Flinders University

Evaluation of a pilot vancomycin therapeutic drug monitoring (TDM) service using an interrupted time series analysis - 307

Dr Sophie Stocker, The University of Sydney

1.25 – 1.39 Coffee break

1.40 – 2.40 Concurrent symposium session

Symposium 4: Global challenges in education: Creating an inclusive environment

Symposium 5: Innovative therapeutic approaches of resolution pharmacology

Symposium 6: Interdisciplinary strategies to address unwarranted variation in high-risk medicines use in aged care

Sponsored by



Chairs: Assoc Prof Elizabeth Davis, Monash University, and Assoc Prof Christian Moro, Bond University

Supporting and including our International students - 308

Assoc Prof Betty Exintaris, Dr Nilushi Karunaratne and Dr Suzanne Caliph, Monash University

Chairs: Dr Chengxue Helena Qin, Monash University, and Prof Ross Vlahos, RMIT University

Dysregulated ALX/FPR2 ligand expression defines a novel molecular subtype of lung cancer - 312

Prof Steven Bozinovski, RMIT University

Chair: Dr Edwin Tan, The University of Sydney

Geographical and intra-facility variation in medicines use in Australian aged care facilities - 316

Dr Janet Sluggett, University of South Australia

Promoting gender equity and diversity in the classroom - 309

Assoc Prof Tina Hinton, The University of Sydney

Lipoxin, a novel approach to treat diabetes-associated atherosclerosis - 313

Prof Catherine Godson, Diabetes Complications Research Centre, Ireland

Unexplained variation in psychotropic use in aged care facilities: How does organisational culture contribute? - 317

Dr Mouna Sawan, The University of Sydney

You wouldn't ask a goldfish to climb a tree! Neurodiversity and associated opportunities for inclusion and improved outcomes for all - 310

Dr Arlene Taylor, intégré FUTURES

Advances in specialized pro-resolving mediator (SPM) G protein-coupled receptors - 314

Dr Christopher Langmead, Monash University

Medication Advisory Committees: A means to address unexplained variation in medicines use - 318

Prof Simon Bell, Monash University

Strengthening Indigenous health workforces - 311

Assoc Prof Karen Adams, Monash University

Cardioprotective potential of resolving inflammation in the heart - 315

Prof Rebecca Ritchie, Monash University

The Registry of Senior Australians (ROSA) Outcome Monitoring System: Quality and safety indicators for examining unwarranted care variation - 319

Assoc Prof Gillian Caughey, South Australian Health and Medical Research Institute (SAHMRI)

Panel discussion

Panel discussion

Panel discussion

(including Dr Angelita Martini, Brightwater Research Centre)

2.40 – 2.59 Coffee break

Thursday 26 November program continued over page

Thursday 26 November 2020 *continued*

3.00 – 3.33 APSA medal

Chair: Assoc Prof Joseph Nicolazzo, Monash University

A Tribute to Dot Saville

Prof Andrew McLachlan, The University of Sydney

The magic of LiPhe: *Leadership in pharmacy/pharmacology education* - 320

Prof Kevin Batty, Curtin University

3.35 – 4.00 Meeting close and awards

Dr Danijela Gnjjidic, ASCEPT President

Assoc Prof Joseph Nicolazzo, APSA President