

MIPS Research Symposium 2025 - Program

9:00	Welcome - Peter Scammells	
9:05	Keynote speaker - Simon Bell	Psychotropics, psychedelics and dementia: three new Australian clinical practice guidelines
9:35	**Global Health** **Chair: Michelle Tan**	
15-minute presentation	Adelle Gadowski (CMUS)	The ENGAGEMENT Trial: A Collaborative Approach to Asthma and COPD
	Shin Liau (CMUS)	Improving Deprescribing Guidance: Insights from Global Health Professionals
	Karoline Sanches (MedChem)	Structural dynamics of venom-derived peptide inhibitors of the voltage-gated potassium channel Kv1.3: Importance in molecular recognition and the design of potent and selective analogues
	Pete Lambert (D4)	The Monash Quality of Medicines Initiative (QoMI) - The First Two Years
Flash presentation	Yuxue Cao (D4)	Oral Nano-Adjuvant Strategy to Enhance Immunotherapy in Colorectal Cancer
	Felix Bennetts (DDB)	Structure-Function Guided Development of P2X1 Receptor Small Molecule Antagonists for Use as a Non-Hormonal Male Contraceptive
	Stephanie Newman (D4)	Evaluating Angiopep-2 Conjugation for Brain Delivery of BCL-XL Inhibitors in GBM
10:45	**Morning Tea**	
11:15	**Cardiovascular & Metabolic** **Chair: Nicholas Veldhuis**	
15-minute presentation	William De Nardo (D4)	MFAP4 as a Novel Driver of MASLD Progression and Fibrosis
	Annaliese Dillon (MedChem)	A First-in-Class GPCR-targeted therapeutic for Heart Failure
	Rebecca Ritchie (DDB)	Human iPSC-Derived Multicellular Cardiac-Organoids as a Platform for Translation: Application in Diabetes-Induced Heart Failure
	Sanduni Madawala (CMUS)	Association between treatable traits and lung function among participants of a COPD clinical trial

Flash presentation	Surafel Tegegne (DDB)	Exercise EV proteomics explorer: A hybrid web platform for curated data mining and live functional analysis of extracellular vesicle proteomes
	Nathan Nguyen (DDB)	TRPV4 regulates mitochondrial functions and cellular lipid metabolism
	Anna Mackintosh (CMUS) & James Nind (CMUS)	Optimising Medicine Use and Safety in Australian General Practice: Codesigning Interventions to Strengthen Prescribing and Patient Engagement
	Laura Humphrys (DDB)	Editing native proteins and investigating the signalosome of Class B1 G protein coupled receptors (GPCRs)
12:30	**Lunch**	
13:30	Keynote speaker - Giuseppe Barca	Quantum- and AI-Driven Drug Discovery
14:00	**Tech development & Translation** **Chair: Emma Watson**	
15-minute presentation	Sam Maleki (CMUS)	Understanding and Addressing Polypharmacy and Potentially Inappropriate Medications in Older Adults with Cancer: Patterns, Predictors, and the Role of Deprescribing.
	Ben Morrow (MedChem)	Discovery and preclinical development of small molecules targeting STING for cancer therapy.
	Ylva Bozikis (MedChem)	Not All Hits Are Equal: How to Spot and Validate the Right Ones
	Moore Chen (D4)	Optimising mRNA Therapeutics: A Simplified Strategy for Targeted LNP Functionalisation
Flash presentation	Daniel Collins (CDCO)	The Application of Acoustic Ejection Mass Spectrometry to Preclinical Drug Discovery
	Jann Harberts (D4)	Transfecting T cells and hiPSCs using nanoinjection
15:10	**Afternoon tea**	
15:40	**Neuroscience and Mental Health** **Chair: Jann Harberts**	
15-minute presentation	Natalie Diepenhorst (DDB)	Lead discovery for the orphan GPCR, GPR88
	Mohammad Abdallah (D4) & Roisin McCague (D4)	Nano-delivery systems to target cervical lymphatics: A novel approach to treat ischemic stroke
	Tracy Josephs (DDB)	Genetic Contributions to Mitochondrial Dysfunction in ALS: Targeting Import Chaperones of TDP-43
	Shane Hellyer (DDB)	Targeting endosomal metabotropic glutamate receptor 5 signalling for the treatment of pain
Flash presentation	Gong Chen (CDCO)	Brain uptake of fatty acid-binding protein 4 inhibitors and the potential role of drug efflux transporters
	Michelle Halls (DDB)	Linking Noradrenaline Signalling to TNBC Metastasis: The Role of HOXC12
	Sheng Yu Ang (DDB)	Targeting GPR17 to Promote Remyelination in Multiple Sclerosis
	Gopisankar Mohanannair (CMUS)	The Potential Impact of Increased Investment in Epilepsy Care in Australia
16:55	Final Remarks - Chris Porter	
17:15	**Networking and celebration**	
19:00	End	