

Bench to Bedside and Back: New Advances in Cardiovascular Research

Location: Barnett Lecture Theatre, Dunedin Hospital

Tuesday, 25 November

8:30-8:35 Open Day One/Symposium Welcome

Calcium Handling and Arrhythmia I

- 8:35-9:00 **Pete Jones** University of Otago, Dunedin
Role of RyR2 in arrhythmia
- 9:00-9:25 **Angela Dulhunty** Australian National University
FKBP binding to RyR2, channel gating and arrhythmia
- 9:25-9:50 **Peter Larsen** University of Otago, Wellington
Improving risk stratification for ventricular arrhythmia
- 9:50-10:15 **Marie Ward** University of Auckland
Mechanosensitive Ca²⁺ signalling in the heart
- 10:15-10:35 **Chris Charles** University of Otago, Christchurch
Snaring, wiring and pacing hearts: Sheep models unravelling cardiovascular disease
- 10:35-10:50 Morning Tea Break

Cardiovascular Input and Control

- 10:50-11:15 **Gerry Wilkins** University of Otago, Dunedin
TBA
- 11:15-11:40 **Tim David** University of Canterbury
Modelling coupled cells in the coronary tree: A grand challenge problem?
- 11:40-11:55 **Morgayn Read** University of Otago, Dunedin
Seizure induced cardiomyopathy and intervention
- 11:55-12:20 **Daryl Schwenke** University of Otago, Dunedin
Ghrelin suppresses cardiac sympathetic tone following acute myocardial infarct
- 12:20-12:45 **Bruce Smail** University of Auckland
TBA
- 12:45-1:35 Lunch and Poster Session

Diabetes and Metabolic Disorders

- 1:35-2:00 **Lea Delbridge** University of Melbourne
TBA
- 2:00-2:25 **Chris Baldi** University of Otago, Dunedin
TBA
- 2:25-2:40 **June-Chiew Han** University of Auckland
Mechanical efficiency of the diabetic heart
- 2:40-3:05 **Kimberley Mellor** University of Auckland
New insights into glycogen handling in the heart
- 3:05-3:30 **Regis Lamberts** University of Otago, Dunedin
Impaired relaxation in human diabetic myocardium...or not?
- 3:30-3:45 Afternoon Tea Break

Novel Therapeutic Targets and Strategies

- 3:45-4:10 **Livia Hool** University of Western Australia
Optimising morpholino antisense oligomers as therapy in Duchenne Muscular Dystrophy cardiomyopathy
- 4:10-4:35 **James Pearson** Monash University
Beta-blockade prevents coronary dysfunction induced by a high salt diet and insulin resistance in rats
- 4:35-5:00 **Anne Gillis** University of Calgary
Targeting the ryanodine receptor to prevent paroxysmal atrial fibrillation

Tuesday, 25 November (cont.)

- 5:00-5:25 **Ivan Sammut** University of Otago, Dunedin
Renal denervation in diabetes
- 5:25-5:45 **Mark Richards** University of Otago, Christchurch
Peptides in practice: B type cardiac natriuretic peptides in the management of heart failure
- 5:45-6:15 **Richard Troughton** University of Otago, Christchurch
Natriuretic peptide-guided treatment of heart failure
- 6:15-6:20 Close Day One
- 7:00 Symposium Dinner at Little India restaurant (308 Moray Place)

Wednesday, 26 November

- 8:30-8:35 Open Day Two

Predicting Cardiovascular Disease

- 8:35-8:55 **Vicky Cameron** University of Otago, Christchurch
Prophesy is a good line of business, but it is full of risks: Predicting heart disease risk
- 8:55-9:20 **Michael Williams** University of Otago, Dunedin
MicroRNA profiling of diseased aortic valves
- 9:20-9:40 **Chris Pemberton** University of Otago, Christchurch
Hunting the Snark: New peptides to measure in the circulation
- 9:40-10:05 **Greg Jones** University of Otago, Dunedin
Abdominal aortic diameter: A novel marker of global cardiovascular disease risk
- 10:05-10:30 **Rajesh Katare** University of Otago, Dunedin
Circulating microRNAs as potential diagnostic biomarkers for diabetic heart disease
- 10:30-10:45 Morning Tea Break

Calcium Handling and Arrhythmia II

- 10:45-11:10 **Derek Laver** University of Newcastle
Control of SR calcium release and its dependence on the mode of ryanodine receptor inhibition
- 11:10-11:35 **Jim Bell** University of Melbourne
CaMKII activation in reperfusion: For better or for worse
- 11:35-11:50 **Annika Winbo** Umea University Hospital, Sweden
LQTS in Sweden: Outcomes of founder effects
- 11:50-12:15 **Nicole Beard** University of Canberra
Anthracycline cardiotoxicity: ROS, ryanodine receptors and rogue calcium release
- 12:15-12:40 **Jeff Erickson** University of Otago, Dunedin
Activation mechanisms of CaMKII in the heart
- 12:40-12:45 Close Day Two

2:00-3:00 Sir John Eccles Distinguished Lecture
Donald Bers University of California, Davis

Presented by:



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