

QRW Programme
Metabolic and Cardiovascular Disease Satellite
Monday 29 August – Tuesday 30 August, 2022
Rydgas Hotel, Queenstown, New Zealand

Monday 29 August

Time	Details	Location
8.30am – 10:30 am	Mihi whakatau	Queenstown room
10:30am – 11:00am	Morning Tea	Reds Bar
<u>Introduction to newly funded TEC CoREs.</u> Chaired by Kate Lee (UoA)		
11:00am - 11:05am	Welcome	Queenstown Room
11:05am - 11:35am	Peter Shepherd – MWC CoRE Maurice Wilkins Centre (MWC)	Queenstown Room
11:35am - 12:05pm	Anna Rolleston – HHANZ CoRE Healthy Hearts Aotearoa/NZ (HHANZ)	Queenstown Room
12:05pm - 12:15pm	Quick Break (10min)	
<u>Mechanisms at the intersection of metabolic and cardiovascular disease.</u> Chaired by Anna Rolleston (UoA)		
12:15pm - 12:30pm	MD1: Rajesh Katare <i>sponsored by Bio-Rad Laboratories Pty Ltd</i> University of Otago <i>Modulation of microRNAs - a mechanistic approach for the treatment of diabetic heart disease.</i>	Queenstown Room
12:30pm - 12:45pm	MD2: Hamish Aitken-Buck University of Otago <i>Linking epicardial fat to cardio-metabolic disease: evidence from basic research</i>	Queenstown Room
12.45pm - 1.00pm	MD3: George Chang <i>sponsored by Maurice Wilkins Centre</i> University of Auckland <i>The CALCRL receptor: A potential new genetic determinant of diabetic kidney disease in NZ</i>	Queenstown Room
1.00pm - 1:15pm	MD4: Troy Merry <i>sponsored by Transnetyx</i> University of Auckland <i>The paradoxical role of IL-6 in cardiometabolic health</i>	Queenstown Room
1:15pm - 1:30pm	MD5: Audrys Pauza University of Auckland <i>Unravelling novel gut-brain axis controlling sympathetic activity</i>	Queenstown Room
1.30pm-3:00pm	1h 30minutes for Lunch & Posters Session	Level 5 & Trade Area Level 7, Marquee

<u>Metabolic disease.</u> Chaired by Sharon Ladyman (UoO)		
3.00pm - 3.15pm	MD6: Debbie Hay <i>sponsored by Thermo Fisher Scientific</i> University of Otago <i>Understanding amylin and its receptors for treating obesity and diabetes</i>	Queenstown Room
3.15pm - 3.30pm	MD7: Dave Grattan University of Otago <i>Hypothalamic Wnt/β-catenin signalling is required for normal metabolic homeostasis.</i>	Queenstown Room
3.30pm – 3:45pm	MD8: Waruni Dissanayake University of Auckland <i>Catenin regulating the traffick: role of catenin proteins in the modulation of insulin vesicle trafficking in β-cells</i>	Queenstown Room
3:45pm – 4:00pm	MD9: Brooke Wilson <i>sponsored by Abacus DX</i> University of Auckland/Liggins Instit. <i>Are fecal microbes the magic pill for weight loss?</i>	Queenstown Room
4.00pm-4:15pm	Quick Break (15min)	
<u>Prevention: Community to Clinic.</u> Chaired by Troy Merry (UoA)		
4.15pm - 4.30pm	MD10: Tamasin Taylor <i>sponsored by Maurice Wilkins Centre</i> University of Auckland <i>Empowered Pacific-patient populations on the weight-loss surgery pathway</i>	Queenstown Room
4.30pm - 4.45pm	MD11: Conor O’Sullivan <i>sponsored by University of Otago</i> MOKO Foundation / MWC <i>The Fructose in Schools Study (FISS)</i>	Queenstown Room
4:45pm - 5:00pm	MD12: Andrew Reynolds University of Otago <i>Carbohydrates in CVD prevention and management</i>	Queenstown Room
5:00pm – 5:15pm	MD13: Allamanda Faatoese <i>sponsored by University of Otago</i> University of Otago, Christchurch <i>From Screening to Intervention: Vitamin C in the Pasifika Heart study</i>	Queenstown Room
5:15pm - 5:30pm	MD14: Rachel Webb University of Auckland /Auckland District Health Board <i>Update on rheumatic fever and rheumatic heart disease research in Aoteaora</i>	Queenstown Room
Evening events:		
5:30pm - 7:30pm	Evening Social Function <i>sponsored by Millennium Science – 10x Genomics</i> Drinks and canapes	Level 4, Trade Area
7:30 pm	Dinner at The London	The London

Tuesday 30 August		
Time	Details	Location
<u>Maternal and Women's health</u> Chaired by Dave Grattan (UoO).		
9:00am – 9:15am	MD15: Helen Paterson University of Otago <i>Developing an intervention to optimise gestational weight gain</i>	Queenstown Room
9.15am - 9:30am	MD16: Ben Albert University of Auckland/Liggins Inst <i>Fish oil supplementation to rats fed a high-fat diet during pregnancy improves insulin sensitivity in the adult offspring</i>	Queenstown Room
9:30am – 9:45am	MD17: Carolyn Barrett University of Auckland <i>A sex specific risk factor for cardiovascular disease: Preeclampsia and the role of placental extracellular vesicles</i>	Queenstown Room
9:45am – 10:00am	MD18: Rebecca Campbell University of Otago <i>How androgen excess shapes the polycystic ovary syndrome (PCOS)-like brain</i>	Queenstown Room
10.00am-10.30am	Morning Tea	Level 5 & Trade Area
<u>Genetic Drivers of Metabolic and Cardiovascular Disease.</u> Chaired by Allamanda Faatoese (UoO)		
10.30am - 10.45am	MD19: Kate Lee <i>sponsored by Transnetyx</i> University of Auckland <i>Using mice to understand how the CREBRF variant drives larger size and lower diabetes risk.</i>	Queenstown Room
10.45am - 11.00am	MD20: Sharon Ladyman <i>sponsored by Eppendorf</i> University of Otago / MWC <i>Protective role of a Polynesian-specific variant of the CREBRF gene against gestational diabetes mellitus (GDM): mouse model</i>	Queenstown Room
11:00am - 11:15am	MD21: Greg Jones <i>sponsored by Abacus DX</i> University of Otago <i>Accelerated DNA Methylation epigenetic age in vascular disease</i>	Queenstown Room
11.15am - 11.30am	MD22: Anna Pilbrow <i>sponsored by Millennium Science – 10x Genomics</i> University of Otago <i>Predicting progression from coronary artery disease to heart failure</i>	Queenstown Room
11:30am - 11:45am	MD23: Claire Wang University of Auckland	Queenstown Room

	<i>Understanding genetic impact on metformin efficacy to guide clinical treatment in diabetes</i>	
11:45am-12:00pm	MD24: Rinki Murphy sponsored by Thermo Fisher Scientific University of Auckland <i>Precision medicine in Diabetes: Type 2 diabetes medication Which One is Right Here? (WORTH) study</i>	Queenstown Room
12.00pm-1:00pm	Lunch	Level 5 & Trade Area

<u>Renal disease and neural systems.</u> Chaired by Johanna Montgomery (UoA)		
1.00pm - 1.15pm	MD25: Fiona McBryde University of Auckland <i>Sympathetic modulation of pressure, flow and capacitance – implications for cardiovascular control</i>	Queenstown Room
1.15pm - 1.30pm	MD26: Veronika Sander sponsored by TrendBio University of Auckland <i>Using stem cell-derived kidney organoids for disease modelling</i>	Queenstown Room
1:30pm – 1:45pm	MD27: Jasmine Tan ADHB, CMDHB <i>Beyond blood pressure and glucose lowering: SGLT 2 inhibition and diabetes kidney disease</i>	Queenstown Room
1:45pm – 2.00pm	MD28: Annika Winbo sponsored by illumina University of Auckland <i>Neurocardiac aspects of the long QT Syndrome- a sympathetically triggered arrhythmia</i>	Queenstown Room
2:00pm - 3:00pm	MD29: Anna Gosling University of Otago <i>Insights into metabolic disease in CHamoru in Guam, Western Micronesia</i>	Queenstown Room
	MD30: Marcus Ground University of Otago <i>FGF-2 reverses myofibroblastic activation of diseased valvular interstitial cells</i>	
	MD31: Hannah Burden University of Auckland <i>The Māori and Pacific specific type 2 diabetes protective gene variant, CREBRF rs373863828, is associated with greater early phase insulin response to a glucose stimulus</i>	
	MD32: Alex Chan University of Auckland <i>Identifying novel mitochondrial derived peptides from utilising natural variations in mtDNA</i>	
	MD33: Dhananjie Chandrasekera University of Otago <i>A novel protocol for the enrichment of exosomes yield from biological fluids</i>	
Oral presentations selected from abstracts		

	<p>MD34: Randall D'Souza University of Auckland <i>Administration of alpha-1-antitrypsin attenuates hepatic steatosis and escalation to non-alcoholic steatohepatitis in mice.</i></p>	
	<p>MD35: Valeria Mereacre University of Otago <i>Phosphorylation of RyR2 by CK2 is anti-arrhythmic</i></p>	
	<p>MD36: Christopher P Hedges University of Auckland <i>Inhibition of PI3K to promote weight loss.</i></p>	
3:00pm-3:30pm	Afternoon Tea	Level 5 & Trade Area
<p><u>Arrhythmia</u> Chaired by Julian Paton (UoA)</p>		
3:30pm - 3.45pm	<p>MD37: Johanna Montgomery <i>sponsored by Abacus DX</i> University of Auckland <i>Neural plasticity in the innervation of the heart and its potential role in cardiac arrhythmias</i></p>	Queenstown Room
3:45pm – 4:00pm	<p>MD38: Peter Jones <i>sponsored by Lab Supply</i> University of Otago / MWC <i>Role of calcium in arrhythmias</i></p>	Queenstown Room
4:00pm – 4:15pm	<p>MD39: James Fisher <i>sponsored by Abcam</i> University of Auckland <i>Autonomic dysfunction, arrhythmic risk and rheumatoid arthritis</i></p>	Queenstown Room
4:15pm-4:30pm	Poster and talk award presentation and meeting close.	Queenstown Room
4:00pm-6:00pm	MedSci Poster session	Level 5 & Level 7, Marquee
<p><u>Queenstown Research Week Plenary Session</u> <i>sponsored by University of Otago</i></p>		
6:30pm – 6.45pm	<p>Welcome: Peter Shepherd, Chair University of Auckland</p>	Queenstown & Wakatipu Rm
6.45pm - 8.00pm	<p>“The Future of the New Zealand Research System” Prof. Juliet Gerrard Prime Minister's Chief Science Advisor Prof. Gary Evans MBIE's Chief Science advisor Prof Sunny Collins Chief Executive, Health Research Council of New Zealand Chris Higgins CEO, New Zealanders For Health Research</p>	Queenstown & Wakatipu Rm
8.00pm – 10.00pm	Fashionomics <i>sponsored by Thermo Fisher Scientific</i>	Level 4, Trade Area