

MEDSCI NZ

PROGRAMME

2017

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MedSci 2017 Programme at a glance

Monday 4th September 2017

6.00 pm – 6.15 pm	Opening: Peter Shepherd, Queenstown Research Week Chair
6.15 pm – 7.00 pm	Queenstown Research Week Plenary Lecture: Nobel laureate Professor Bruce Beutler, University of Texas, USA, 'How we sense infection'
7.00 pm – 9.00 pm	QRW Social

Tuesday 5th September 2017 – Societies Day

9.00 am – 10.00 am	MedSci Plenary Lecture: Professor Joseph Takahashi, University of Texas, USA, 'Circadian clocks in health and disease'		
10.00 am – 10.30 am	Morning Tea		
10.30 am – 12.30 pm	Session 1A: PSNZ Bullivant Prize Finalists	Session 1B: NZSE Nancy Sirett Lecture and Student Oral Award Finalists	Session 1C IBTec Student Oral Award Finalists and Free Communications
12.30 pm – 1.30 pm	Lunch and separate PSNZ and NZSE AGM's		
1.30 pm – 3.30 pm	Session 2A: PSNZ Bullivant Prize Finalists (continued) PSNZ Hubbard Prize Finalists	Session 2B: Free Communications	
3.30 pm – 4.00 pm	Afternoon Tea		
4.00 pm – 6.00 pm	Session 3A: Free Communications and PSNZ Triennial Medal Presentation/Award	Session 3B: Infoblitz Presentations and Free Communications	
6.00 pm – 8.00 pm	Combined MedSci, QMB, AWCBR Poster Session + Mixer		
8.00 pm –	Fashionomics		

Wednesday 6th September 2017 – Symposia Day

9.00 am – 10.00 am	MedSci Plenary Lecture: Professor Ken Ho, University of Queensland, Australia, 'Growth hormone and sports: detecting the doped or duped'		
10.00 am – 10.30 am	Morning Tea		
10.30 am – 12.30 pm	Symposium 1A (PSNZ): Vascular dysfunction in diabetes	Symposium 1B (CNE): Circadian clocks in health and disease	
12.30 pm – 1.30 pm	Lunch and MedSci AGM		
1.30 pm – 3.30 pm	Symposium 2A (PSNZ): MicroRNAs in cardiovascular health and disease	Symposium 2B (IBTec) Respiratory diagnostics and therapies	
3.30 pm – 4.00 pm	Afternoon Tea		
4.00 pm – 6.00 pm	Symposium 3A (ABI) The heart in health and in failure	Symposium 3B (NZSE): Growth hormone actions in health and disease	
6.00 pm	Closing		
7.00 pm	MedSci Dinner + Prize-giving (Prime Restaurant)		

Monday 4th September 2017 QRW Opening Night Speaker	
6.00 pm - 6.15 pm	Opening Peter Shepherd, Queenstown Research Week Chair Queenstown Room, Level 5, Rydges Hotel
6.15 pm - 7.00 pm	Queenstown Research Week Plenary Lecture Professor Bruce Beutler (Nobel Laureate), University of Texas, USA <i>sponsored by University of Otago</i> Queenstown Room, Level 5, Rydges Hotel Chair: Peter Shepherd
7.00 pm - 9.00 pm	Queenstown Research Week Welcome Function Trades Area, Level 4, Rydges Hotel

6.00 pm – 6.15 pm	Opening: Peter Shepherd, Queenstown Research Week Chair
6.15 pm – 7.00 pm	QRW Lecture: Professor Bruce Beutler ‘How we sense infection’ <i>sponsored by University of Otago</i>
7.00 pm – 9.00 pm	QRW Social

Tuesday 5th September 2017
MedSci Plenary Lecture, Societies' Free Communications, and
MedSci/QMB/AWCBR Poster Session

MedSci Plenary Lecture

9.00 am - 10.00 am	Joseph Takahashi, The University of Texas, USA Circadian clocks in health and disease Queenstown Room, Level 5, Rydges Hotel Chair: Alexander Tups
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10.00 am - 10.30 am	Morning Tea: Trade Exhibition Area, Level 4
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Societies' Presentations

Time	Session 1A:	Session 1B:	Session 1C
10.30 am - 12.30 am	PSNZ Bullivant Prize Finalists Clancys Room, Level 5 Chairs: Kim Mellor, Carolyn Barrett	NZSE Nancy Sirett Lecture and Student Oral Award Finalists <i>(sponsored by Medi'Ray)</i> QT 1, Level 4, Rooftop Chair: Greg Anderson	IBTec Student Oral Award Finalists and Free Communications QT 2, Level 4, Rooftop Chair: Andrew Lowe
10.30 am - 10.45 am	1A.1 Bullivant Prize Contestant 1: Jan-peter Baldin, University of Otago The β - and γ -subunit of ENaC play a modulatory role in shear force sensation	1B.1 Nancy Sirett Lecture: Dr Chris McMahon, ManukaMed, Ruakura, NZ Muscle, meat, marbling and medicine: the growth axis in livestock and biomedicine	1C.1 IBTec Prize Contestant 1: Dalya Al-Mohamadamin, Auckland University of Technology Novel method of recording keratometry reading by using slit scanning
10.45 am - 11.00 am	1A.2 Bullivant Prize Contestant 2: Daniel Barth, University Of Otago Shear force sensation of the epithelial sodium channel is facilitated via a connection to the extracellular matrix		1C.2 IBTec Prize Contestant 2: Andries Meintjes, Auckland University of Technology Heart sound segmentation metrics and features
11.00 am - 11.15 am	1A.3 Bullivant Prize Contestant 3: Akash Deep Chakraborty, University of Otago Arrhythmogenic ATP based kinase inhibitors directly increase the activity of RyR2		1C.3 IBTec Prize Contestant 3: Jaishankar Bharatharaj, Auckland University of Technology Parrot-inspired therapeutic robot to improve learning and social interaction of children with autism spectrum disorder
11.15am - 11.30 am	1A.4 Bullivant Prize Contestant 4: Adam Denny, University of Otago Is high-density lipoprotein-based therapy an option for the treatment of muscle damage in Facioscapulohumeral Muscular Dystrophy?		1C.4 IBTec Prize Contestant 4: Sandra Grau Bartual, Auckland University of Technology Calu-3 cell model to investigate the effect of the positive pressure on the airway surface liquid layer water content
11.30 am - 11.45 am	1A.5 Bullivant Prize Contestant 5: Obialunanma Ebenebe, University Of Otago The role of CaMKII in atherosclerotic plaque calcification in the ApoE-null mouse		1B.2 NZSE Prize Contestant 1: Man Lu, University of Auckland Discovery and development of small molecule antagonists inhibiting the growth hormone receptor

11.45 am - 12.00 pm	1A.6 Bullivant Prize Contestant 6: Jason Lew, University of Otago High-intensity interval exercise attenuates cardiac dysfunction and restores cardiac microRNA-126/SPRED-1/VEGF pathway in type-2 diabetic mice	1B.3 NZSE Prize Contestant 2: Bo Sun, University Of Auckland Melanocortin hormones regulate C57BL/6 mouse gut microbiota	1C.6 Bianca Maceo-Heilman, University Of Auckland Effects of inhibition of the lens microcirculation on the optical properties of bovine lenses assessed by laser ray tracing
12.00 pm - 12.15 pm	1A.7 Bullivant Prize Contestant 7: Victoria King, University of Auckland Effect of chronic inflammation on circadian rhythms in the preterm fetus	1B.4 NZSE Prize Contestant 3: Kirsten Carter, University Of Otago Prolactin-induced suppression of acute running wheel activity in female mice	1C.7 Makhdoom Sarwar, University Of Otago The cell-environment handshake: An interaction that regulates gene expression
12.15 pm - 12.30 pm	1A.8 Bullivant Prize Contestant 8: Aline Loehfelm, University of Otago Effects of fatty acids on neuronal morphology and function – implications for Alzheimer’s disease	1B.5 NZSE Prize Contestant 4: Lekha Jain, University of Auckland Genetic variation in genes of the GH/IGF-1 axis in human development and disease	1C.8 n/a
12.30 pm	PSNZ AGM – Clancy’s Room		NZSE AGM – QT 2, Level 4 Rooftop
12.30 pm - 1.30 pm	Lunch: Trade Exhibition Area, Level 4, Rydges Hotel		
Societies’ Presentations			
1.30 pm - 3.30 pm	Session 2A PSNZ Bullivant Prize Finalists (continued) PSNZ Hubbard Prize Finalists Clancys Room, Level 5 Chairs: Colin Brown	Session 2B Free Communications QT 1, Level 4, Rooftop Chairs: Guy Warman, Clare Reynolds	
1.30 pm - 1.45 pm	2A.1 Bullivant Prize Contestant 9: Sama Mugloo, University Of Otago Hypertension is associated with increased ENaC expression in the arteries of Cyp1a1-Ren2 rats	2B.1 Alisa Boucsein, University Of Otago Circadian rhythmicity of leptin sensitivity in the hypothalamus	
1.45 pm - 2.00 pm	2A.2 Bullivant Prize Contestant 10: Joshua Neale, University Of Otago Ghrelin deletion impairs postischaemic revascularisation	2B.2 Alma Orts-Sebastian, University Of Auckland The effect of general anaesthesia on circadian rhythms in mice	
2.00 pm - 2.15 pm	2A.3 Hubbard Prize Contestant 1: Mauro Batista da Silva, University Of Otago Dissecting the functional relevance and ontogeny of altered GABAergic circuitry in polycystic ovary syndrome (PCOS)	2B.3 Jia Zhao, University Of Auckland High doses of Isoflurane reduce survival in aged <i>Drosophila melanogaster</i>	
2.15 pm - 2.30 pm		2B.4 Raewyn Poulsen, University Of Auckland NMDA receptor subunit switch disrupts the chondrocyte-intrinsic circadian clock in osteoarthritis and causes disease-associated changes in chondrocyte phenotype	
2.30 pm - 2.45 pm	2A.4 Hubbard Prize Contestant 2: Lorna Daniels, University Of Otago The role of calcium calmodulin dependent protein kinase II in type 2 diabetic cardiac dysfunction	2B.5 David Crossman, University Of Auckland T-tubule remodelling: a cellular pathology driven by both sides of the plasmalemma?	
2.45 pm - 3.00 pm		2B.6 Michelle Munro, University Of Otago Prenatal formation of early t-tubules in the sheep heart	
3.00 pm - 3.15 pm	2A.5 Hubbard Prize Contestant 3: Alex Wilson, University of Auckland The structure-function relationship in cardiac remodelling	2B.7 Joanne Harrison, University Of Otago Organic carbon monoxide releasing molecules as cardioprotective agents	
3.15 pm - 3.30 pm		2B.8 Lisa Martin, Monash University, Australia The molecular origins of amyloidogenic peptides	

3.30 pm - 4.00 pm	Coffee Break: Trade Exhibition Area, Level 4, Rydges Hotel	
Societies' Presentations		
4.00 pm - 6.00 pm	<p>Session 3A</p> <p>Free Communications and PSNZ Triennial Medal Clancys Room, Level 5 Chair: Paul Donaldson, Michelle Munro</p>	<p>Session 3B</p> <p>Infoblitz Presentations and Free Communications QT 1, Level 4, Rooftop Chair: Rohit Ramchandra, David Mellis</p>
4.00 pm - 4.15 pm	<p>3A.1 Qishan Zhou, University Of Auckland The role of connexin and pannexin hemichannels and purinergic receptors in perinatal ischemic brain injury</p>	<p>Infoblitz Presentations</p> <p>3B.1 Mathilda Plate, University Of Otago Does the neuropeptide RFamide related peptide-3 act on GnRH neurons to inhibit reproductive activity?</p>
		<p>3B.2 Caroline Focke, University Of Otago Revealing the circadian patterns of CRH neuron excitability in freely behaving mice</p>
		<p>3B.3 Jessica Calverley, University Of Otago Determining the physiological importance of CaMKII in alpha-adrenergic regulation of heart function in mice</p>
		<p>3B.4 Isabelle Van Hout, University Of Otago Alterations in calcium handling proteins in diabetic and non-diabetic patients with or without post-operative atrial fibrillation</p>
4.15 pm - 4.30 pm	<p>3A.2 Hyeon Tae (Kenta) Cho, University Of Auckland The TLR7 agonist Gardiquimod protects oligodendrocytes from damage after asphyxia in the preterm fetal sheep</p>	<p>3B.5 Bradley Jamieson, University Of Otago Vasopressinergic control of RP3V kisspeptin neurons</p>
		<p>3B.6 Rebecka Raymond, University Of Otago The role of arcuate nucleus kisspeptin neurons in female fertility and LH pulse generation</p>
		<p>3B.7 Alexander Wong, University Of Otago The effect of protein kinase C on the ryanodine receptor</p>
		<p>3B.8 Ellen Grengard, University Of Otago Hypothalamic control of stress and anxiety responses: role of CRH neurons and neuropeptide RFamide related peptide-3</p>
4.30 pm - 4.45 pm	<p>3A.3 Yonis Abukar, University Of Auckland Altered neural control in a microembolisation induced model of left ventricle dysfunction</p>	<p>3B.9 Denis Loiselle, University of Auckland The ineluctable constraints of thermodynamics in the aetiology of obesity</p>
4.45 pm - 5.00 pm	<p>3A.4 Jenny Clarkson, University Of Otago The role of arcuate nucleus kisspeptin neurons in the generation of luteinising hormone pulses</p>	<p>3B.10 Aram Ahmed Babakr, University Of Otago Does epicardial adipose tissue make the human heart more susceptible to atrial fibrillation?</p>
5.00 pm - 5.15 pm	<p>3A.5 Triennial Medal Award and Presentation Colin Brown, University of Otago Stating the obvious? Vasopressin neurons contribute to increased blood pressure during the development of hypertension</p>	<p>3B.11 Jiao Guo Guangdong Pharmaceutical University, Guangzhou, China Liver-adipose tissue crosstalk as a key player in the pathogenesis of glycolipid metabolic disease and potential target of Chinese medicine</p>
5.15 pm - 5.30 pm		<p>3B.12 Kim Mellor, University of Auckland Diabetic cardiomyopathy is characterised by diastolic dysfunction linked with disturbances in cardiomyocyte glucose handling and AMPK signalling.</p>
5.30 pm - 6.00 pm		<p>3B.13 Nima Purvis, University Of Otago The pathophysiological role of microRNAs in diabetic cardiac stem cells</p>
		<p>3B.14 Carol Bussey, University Of Otago Increased right cardiac sympathetic and parasympathetic nerve activity in type 2 Diabetes</p>

6.00 pm – 8.00 pm	Combined MedSci, QMB, AWCBR Poster Session + Mixer Trades Area, Level 4, Rydges Hotel Level 5 Foyer, Rydges Hotel QT 2 and QT 3, Level 4, Rooftop
NZSE Posters	
M1	Eulalia Coutinho, University Of Otago. Activation of arcuate neuropeptide Y neurons alters luteinising hormone secretion in mice
M2	Maggie Evans, University Of Otago. Leptin receptor signalling in midbrain dopamine neurons suppresses physical activity in mice
M3	Yue Wang, University of Auckland. Inhibition of growth hormone receptor signal transduction in a panel of cancer cell lines
M4	Savana Woodcock, University Of Otago. Mitochondrial DNA content in oocytes from transgenic AMH over-expressing mice
IBTec Posters	
M5	Gautam Anand, Institute of Biomedical Technologies, Auckland University of Technology. Multi-frequency bioimpedance variations to estimate changes in arterial diameter
M6	Anubha Kalra, Institute of Biomedical Technologies, Auckland University of Technology. Elimination of skin-stretch induced motion artefacts from electrocardiogram signals
M7	K L T Roos, Institute of Biomedical Technologies, Auckland University of Technology. Superimposed pressure oscillations (SIPO) and their effects on acute and chronic asthmatic models
ABI Posters	
M8	WITHDRAWN
M9	Rachel Smith, University of Auckland. An optimized computational framework for estimating 3D atrial fibre orientations from contrast enhanced images
M10	Renee, Miller, University of Auckland. Non-invasive measurement of isotropic myocardial stiffness in a hypertensive pig from MRE-measured displacements
M11	Daniel Addo, University Of Auckland. In silico simulation of the arterial spin labelling magnetic resonance imaging technique within the porcine pulmonary circulation
MedSci Posters	
M12	Rachael Augustine, University Of Otago. Paraventricular nucleus kisspeptin fibres originate from kisspeptin cell bodies located in the periventricular nucleus
M13	George Connolly, University Of Otago. Using DREADDs to elucidate the role of AgRP neurons in the control of reproduction
M14	Eldie Desroziers, University Of Otago. Deciphering the role of arcuate GABA neurons in fertility regulation with chemogenetic tools in vivo
M15	Papillon Gustafson, University Of Otago. Regulation of the maternal hypothalamic-pituitary-adrenal axis by prolactin.
M16	Mohinder Kaplish, University Of Otago. The effect of pregnancy-induced adaptations on glucagon like-peptide-1 receptor activation-induced stabilisation of beta-catenin in hypothalamic neurons in female rats
M17	Zin Khant Aung, Centre For Neuroendocrinology, University Of Otago. Pregnancy-induced adaptations in glucose homeostasis in the mouse requires prolactin receptor expression in the pancreas but not the brain
M18	Mohammed Rizwan, University Of Otago. Stabilization of beta-catenin in mouse hypothalamic cell lines
M19	Alexander Seymour, University Of Otago. TRPV regulation of magnocellular neurosecretory cell activity in lactation
Physiological Society of New Zealand Posters (*PSNZ Student Poster Presentation Prize candidate)	
M20	Caroline Ancel, University Of Otago. Deletion of protein tyrosine phosphatase 1B from forebrain neurons does not prevent the onset of diet-induced infertility in female mice
M21	Emily Brown, University Of Otago. TRPV1 expression in the supraoptic nucleus of pregnant rats
M22	Sarah Holland, Otago University. Investigating the role of microglia in polycystic ovary syndrome (PCOS)
M23	India Sawyer University Of Otago. The role of RFRP neurons in murine puberty onset and anxiety
M24	Nathan Skinner, University Of Otago. Effect of circadian rhythms on leptin and insulin sensitivity
M25	Nima Afshar, University Of Auckland. Bond graph modelling of glucose uptake in small intestine using CellML

M26	Hamish Aitken-buck, University Of Otago. Myoregulin has no effect on contraction or relaxation of isolated rat hearts
M27	Ethan Cain, University Of Otago. Is hyperuricemia a regulator of the mTOR complex in pancreatic β -cells?
M28	Dhananjie Chandrasekera, University Of Otago. Understanding the pro-apoptotic role of microRNA-532 in the diabetic heart
M29	Sherina Hollan, Massey University. Soluble factors released by MDA-MB-231 breast cancer cells delay neutrophil apoptosis in vitro
M30	Rachael Redado Iremonger, University Of Otago. The role of beta blockers in cardiac structural remodelling
M31	Kevin Jagau, University Of Otago. Changes in expression of CaMKII isoforms in ApoE ^{-/-} mouse aorta
M32	Timothy Louis Molloy Jones, University of Auckland. Arrhythmic activity and reduced cardiomyocyte contractility in right ventricular hypertrophy
M33	Fenja Knoepp, Excellence Cluster Cardio-pulmonary System, Justus Liebig University, Giessen, Germany. Hypoxia inhibits voltage gated K ⁺ -channels in pulmonary arterial smooth muscle cells by mitochondrial complex IV isoform 2 triggered release of reactive oxygen species
M34	*Shalini Kumar, University Of Otago. Prolactin effects on kisspeptin fibre expression in the paraventricular and supraoptic nucleus of the mouse
M35	Pinky Lal, University of Otago. Investigating the role of epithelial sodium channel (ENaC) as a shear stress sensor in endothelial cells.
M36	Scott Lee, University Of Otago. Optimisation of hanging drop technique for in vitro differentiation of mouse embryonic stem cells into cardiomyocytes
M37	Ryan McQuaig, University of Otago. Synergistic paracrine effects of cardiac progenitor cells from the right atrium and left ventricle on in vitro cultured cardiovascular cells
M38	Khanh Nguyen, University Of Otago. Identification of transporters involved in drug-drug interaction during gout treatment in primary rat hepatocytes
M39	*Sajida Parveen, University Of Otago. Understanding altered heart rate generation in type 2 diabetes
M40	Mel Prescott, Otago University. Finding CLARITY: Visualising the gonadotrophin-releasing hormone neuron
M41	Samir Samman, University Of Otago. Long-term effects of exercise on zinc homeostasis
M42	*Eugene Eng Leng Saw, University Of Otago. Downregulation of non-neuronal cholinergic system (NNCS) reduces glucose transporter in the diabetic heart
M43	Shervarn Sita, University Of Otago. Does hyperuricemia control ubiquitination of p53 via OGT in cancer?
M44	*Pratik Thakkar, University Of Auckland. Is treating the transient post-stroke hypertension after ischemic stroke beneficial? A Wistar rat model study.
M45	Luke Worthington, University Of Otago. CaMKII inhibition reduces foam cell lesion development in the brachiocephalic artery of apolipoprotein E knockout mice
M46	Venkata Satthenapalli, University Of Otago. Ventricle-specific cardiomyocyte differentiation of mouse embryonic stem cells
M47	*Joshua Chang, University of Auckland. Differential regulation of cerebral and renal blood flow by the carotid body in health and hypertension
M48	*Dylan Pen, University Of Auckland. Aortic chemoreceptor stimulation increases coronary blood flow in the conscious sheep
M49	Xiang Fu, Institute of Biomedical Technologies, Auckland University of Technology. Stretchable sensors based on CNTs/PDMS composites capable of detecting tension and pressure
8.00 pm –	Fashionomics <i>Sponsored by Thermo Fisher Scientific</i> Trades Area, Level 4, Rydges Hotel (with drinks)

Wednesday 6th September 2017
MedSci Plenary Lecture and Societies' Symposia

MedSci Plenary Lecture

9.00 am - 10.00 am	Ken Ho, University of Queensland, Australia Growth hormone and sports: detecting the doped or duped Queenstown Room, Level 5 Chair: Greg Anderson
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10.00 am - 10.30 am	Morning Tea: Trade Exhibition Area, Ground Floor
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Societies' Symposia

10.30 am - 12.30 pm	Symposium 1A (PSNZ): Vascular dysfunction in diabetes QT 1, Level 4, Rooftop Chair: Carol Bussey, Zoe Ashley	Symposium 1B (CNE): Circadian clocks in health and disease Queenstown Room & Wakatipu Room, Level 5 Chairs: Alexander Tups, Richard Piet
10.30 am - 11.00 am	S1A.1 Michelle Keske, Deakin University, Australia Impaired microcirculation and insulin resistance	S1B.1 Guy Warman, University of Auckland, NZ The effect of general anaesthesia on sleep and the circadian clock
11.00 am - 11.30 am	S1A.2 Zoe Ashley, University of Otago, NZ The role of vascular ENaC in impaired flow-mediated responses of carotid arteries in diabetes	S1B.2 Oliver Rawashdeh, University of Queensland, Australia The role of PERIOD1 within the central circadian clock network: when evolution lags behind.
11.30 am - 12.00 pm	S1A.3 Andrew Salmon, University of Bristol / Waitemata District Health Board Endothelial glycocalyx – critical roles in vascular dysfunction in diabetes	S1B.3 Alexander Tups, University of Otago, NZ Does it matter at what time of day we eat?
12.00 pm - 12.30 pm	S1A.4 Rajesh Katare, University of Otago, NZ Early downregulation of proangiogenic microRNAs leads to microangiopathy in diabetic heart	S1B.4 Richard Piet, University of Otago, NZ Regulation of the GnRH neuronal network by circadian output neuropeptides
12.30 pm	MedSci AGM – Queenstown Room	

12.30 pm - 1.30 pm	Lunch: Trade Exhibition Area, Level 4, Rydges Hotel
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Societies' Symposia

1.30 pm - 3.30 pm	Symposium 2A (PSNZ): MicroRNAs in cardiovascular health and disease Clancys Room, Level 5 Chairs: Rajesh Katare, Anna Pilbrow	Symposium 2B (IBTec) Respiratory Diagnostics and Therapies QT 1, Level 4, Rooftop Chair: Andrew Lowe <i>sponsored by, Institute of Biomedical Technologies, Auckland University of Technology</i>
1.30 pm - 2.00 pm	S2A.1 Sean Coffey, University of Otago, NZ microRNA based investigations into the biology of aortic valve stenosis	S2B.1 Kim Prisk, University of California, USA Quantifying Ventilation and Perfusion in the Human Lung with Contrast-Free Proton MRI
2.00 pm - 2.30 pm	S2A.2 Salvatore Pepe, University of Melbourne, Australia MicroRNAs in cardiac homeostasis and injury	S2B.2 Alastair Stewart, University of Melbourne, Australia Casein Kinase 1 δ/ϵ inhibitors: a new class of anti-asthma agents?
2.30 pm - 3.00 pm	S2A.3 Jennifer Gamble, Centenary Institute, Australia An novel oligonucleotide-based drug targeting VE-Cadherin as a new therapy for inflammatory disease	S2B.3 Suzanne Bell, Fisher and Paykel Healthcare, NZ Clinical Usability Assessment – The Long Haul

3.00 pm - 3.30 pm	S2A.4 Anna Pilbrow, University of Otago, NZ <i>Sponsored by Thermo Fisher Scientific</i> Using microRNAs to predict heart disease events in the general population	S2B.4 Geoff Bold, Fisher and Paykel Healthcare, NZ Sustainable Life Cycle Respiratory Product Development
3.30 pm - 4.00 pm	Coffee Break: Trade Exhibition Area, Level 4	
Societies' Symposia		
4.00pm- 6.00pm	Symposium 3A (ABI) The heart in health and in failure Clancys Room, Level 5 Chairs: June-Chiew Han, Kim Mellor	Symposium 3B (NZSE): Growth hormone actions in health and disease QT 1, Level 4, Rooftop Chairs: Jo Perry, Mark Vickers
4.00 pm - 4.30 pm	S3A.1 Willem van der Laarse, VUmc Amsterdam Oxygen use for work and other processes in hypertrophied papillary muscle	S3B.1 Clare Reynolds, University of Auckland, NZ Early life nutrition and the path to programmed obesity – can GH intervention make a difference?
4.30 pm - 5.00 pm	S3A.2 Chris Baldi, University of Otago, NZ The role of the myofilament in diabetic left ventricular dysfunction	S3B.2 Ken Ho, University of Queensland, Australia The function of growth hormone beyond growth
5.00 pm - 5.30 pm	S3A.3 Andrew Taberner, University of Auckland, NZ Cardiac myometry in health and disease	S3B.3 Daniel Blackmore, University of Queensland, Australia Physical exercise improves age-associated cognitive deficits in a Growth Hormone- dependent manner
5.30 pm - 6.00 pm	S3A.4 June-Chiew Han, University of Auckland, NZ Left-ventricular energetics: in diabetes, in hypertension	S3B.4 Jo Perry, University of Auckland, NZ Contribution of human growth hormone to cancer progression
7.00 pm	MedSci Dinner and Prize-giving Prime Restaurant	