

MedSci 2025: Summary of Abstracts for the Poster Session

No.	Title	Presenter	Institutions
P1	Evaluation of phenytoin-like compounds for anti-arrhythmic potential	<u>Addison, I.K.</u> ¹ , Jones, P.P. ¹ , Erickson, J.R. ¹	¹ Department of Physiology and HeartOtago, School of Biomedical Sciences, University of Otago, Dunedin, New Zealand.
P2	Measuring Prolactin and Corticosterone during pregnancy and lactation in C57BL/6 mice	<u>Al-Isawi, SA.</u> ^{1,3} , Phillipps, H., Yip, SH. ^{1,2} , Bunn SJ. ¹ , Grattan, D.R. ^{1,2}	¹ Centre for Neuroendocrinology, Department of Anatomy, University of Otago, Dunedin, New Zealand, ² Maurice Wilkins Centre, Auckland, New Zealand, ³ School of Medicine, University of Otago, Dunedin, New Zealand.
P3	Development of Bio-scaffold using Natural Compounds for Wound Healing	<u>Bowden-Morris, Q.</u> ¹ , Sinha, S. ¹ , Saravanan, A.M., J. ¹ , Katare, R. ¹ ,	¹ Department of Physiology, HeartOtago, School of Biomedical Sciences, University of Otago, Dunedin, NZ
P4	Validation of Glymphatic Methods and Analysis	<u>Brighthouse CR.</u> ¹ , , McBryde FD. ¹ , Pontré BP. ² , Emans TW. ¹	¹ Department of Physiology, Faculty of Medical & Health Sciences, University of Auckland, Auckland, New Zealand. ² Department of Anatomy and Medical Imaging, Faculty of Medical & Health Sciences, University of

			Auckland, Auckland, New Zealand.
P5	The Sex-Specific Effect of CaMKII S-nitrosylation on Cardiac Ryanodine Receptor Organisation	<u>Burgin Penlington</u> , <u>L.M.</u> ¹ , Wallace, R.S. ¹ , Erickson, J.R. ¹	¹ Department of Physiology and HeartOtago, University of Otago, Dunedin, NZ.
P6	Functional Characterization of a Māori and Pacific-Specific Non-Coding Variant Utilizing A Novel Method of Zebrafish Transgenesis	<u>Caleb Calhoun</u> ¹ , Hannah Darroch ^{1,2} , Raheel Hussain ¹ , Milly Morice ¹ , Robert Lalonde ³ , Christian Mosimann ³ , Julia Horsfield ² , Megan Leask ¹	¹ Department of Physiology, University of Otago, Dunedin, NZ, ² Department of Pathology, University of Otago, Dunedin, NZ, ³ Department of Pediatrics, Section of Developmental Biology, University of Colorado School of Medicine, Anschutz Medical Campus, Auroa, CO, USA
P7	Anti-Arrhythmic Potential of Phenytoin-Derived Compounds: Targeting RyR2-Mediated Calcium Leak	<u>Chang, A.J.</u> ¹ , Jones, P.P. ¹ , Erickson, J.E. ¹	¹ Department of Physiology and HeartOtago, School of Biomedical Sciences, University of Otago, Dunedin, New Zealand.
P8	Dystrophin-deficiency impairs adrenal gland morphology and function	<u>Chen, J.</u> ¹ , Major, G., ¹ and Lindsay, A. ^{1,4}	¹ School of Biological Sciences, University of Canterbury, Christchurch, New Zealand, ² Department of Medicine, University of Otago, Christchurch, New Zealand, ³ Biomolecular Interaction Centre, University of Canterbury, Christchurch, New Zealand, ⁴ Maurice Wilkins Centre for Molecular Biodiscovery,

			Auckland, New Zealand
P9	Downregulation of Cx36 gap junction desynchronizes the tuberoinfundibular dopaminergic (TIDA) neural network during lactation in rats	<u>Chiang, H.R.C.</u> ¹ , Papaioannou, P. ¹ , Grattan, D.R. ^{1,2} , Yip, S.H. ^{1,2}	¹ Centre for Neuroendocrinology, Department of Anatomy, University of Otago, Dunedin, New Zealand, ² Maurice Wilkins Centre, Auckland, New Zealand, ³ School of Medicine, University of Otago, Dunedin, New Zealand.
P10	Does dysregulation of KNDy neuron activity drive menopausal hot flushes?	<u>Clarkson, J.</u> ¹ , Perkinson, M.R. ¹ , Brown, R.S.E. ¹ , Grattan, D.R. ²	¹ Department of Physiology and Centre for Neuroendocrinology, University of Otago, Dunedin, NZ, ² Department of Anatomy and Centre for Neuroendocrinology, University of Otago, Dunedin, NZ.
P11	Context, controllability, and conditioning: the role of hypothalamic CRH neurons in the shaping of behaviours	<u>Cox, J.L.</u> ¹ , Iremonger, K.J. ¹ , Kim, J.S. ¹	¹ Department of Physiology and Centre for Neuroendocrinology, University of Otago, Dunedin, NZ
P12	Phosphorylation of Calsequestrin II alters spontaneous calcium leak	<u>Cruz, HAE</u> ^{1,2} , Jones, P.P. ^{1,2} & Munro, M.L. ^{1,2}	¹ Department of Physiology, School of Biomedical Sciences, University of Otago, Dunedin, NZ. ² HeartOtago, University of Otago, Dunedin, NZ.
P13	Translating the non-coding variome of the Māori and Pacific genome	<u>Darroch, H.</u> ¹ , Talosaga, J. ² , Morice, M. ² , Calhoun, C. ² , Hussain, R. ² ,	¹ Department of Pathology, Dunedin School of Medicine, University of Otago, NZ, ² Department of

		Lalonde, R. ³ , Mosimann, C. ³ , Wilcox, P. ⁴ , Merriman, T. R. ⁵ , Horsfield, J. ¹ , Leask, M. ²	Physiology, School of Biomedical Sciences, University of Otago, NZ, ³ School of Medicine, University of Colorado, Anschutz Medical Campus, USA, ⁴ Department of Mathematics and Statistics, University of Otago, NZ, ⁵ Immunology and Rheumatology, School of Medicine, The University of Alabama, USA.
P14	Peripheral Chemoreflex Tonicity influence on Sympathetic Activity within Type II Diabetes Mellitus	<u>Drummond-Haak</u> <u>man S</u> ¹ , Sayegh A ¹ , Schwenke D ² , Fisher JP ¹	¹ Department of Physiology, University of Auckland, ² Department of Physiology, University of Otago
P15	Investigating the genetics of PCOS to identify potential therapeutic targets using zebrafish	<u>Eboda, O.N.</u> ^{1,2} , McClure, E. ^{1,2} , Takei, R. ³ , Campbell RE. ^{1,2} , Young, C. ^{1,2} , Darroch, H. ⁴ , Leask M. ^{1,2}	¹ Department of Physiology, University of Otago, Dunedin, NZ, ² Centre of Neuroendocrinology, University of Otago, Dunedin, NZ, ³ Division of Clinical Immunology and Rheumatology, University of Alabama at Birmingham, Birmingham, Alabama, U.S.A, ⁴ Department of Pathology, University of Otago, Dunedin, NZ
P16	Conditional Deletion of β -Catenin in the Mediobasal Hypothalamus Impairs Adaptive Energy Expenditure in Response to High-Fat Diet and Exacerbates Diet-Induced Obesity	Rizwan, M.Z. ^{1,2,3} , Keerthisinghe, P. ^{1,4} , <u>Fang, C.</u> ^{1,2,3} , Shepherd, PR ^{3,5} , Tups, A ^{1,3,4} , Grattan, D.R. ^{1,2,3}	¹ Centre for Neuroendocrinology, University of Otago, Dunedin, NZ., ² Department of Anatomy, University of Otago, Dunedin, NZ., ³ Maurice Wilkins Centre for Molecular

			Biodiscovery, Auckland, NZ., ⁴ Department of Physiology, University of Otago, Dunedin, NZ., ⁵ Faculty of Medical and Health Sciences, University of Auckland, Auckland, NZ.
P17	Quantifying Sex-Based Differences in Apoptosis and Fibrosis in Nitric Oxide Sensitive Hearts.	<u>Hall, M.J.L.</u> ¹ , Wallace, R.S. ¹ , Erickson, J.R. ¹	¹ Department of Physiology and HeartOtago, University of Otago, Dunedin, NZ.
P18	The Effects of Diet on Cardiovascular & Plant miRNAs in Patients Recovering from Acute Coronary Event	<u>Hassan-Parker</u> <u>S.</u> ¹ , Katare, R. ¹	¹ Department of Physiology & HeartOtago, University of Otago, Dunedin, New Zealand
P19	Sex-Specific Differences in Retinal Dopamine Levels in a Dopamine Transporter Knockout (DAT-KO) Model of Attention-Deficit Hyperactivity Disorder (ADHD)	<u>Idowu, G.P.</u> ¹ , Lloyd, J.T. ^{1,3} , Freestone, P. ^{2,3} , Acosta, M.L. ^{1,3}	¹ School of Optometry and Vision Science; New Zealand National Eye Centre, University of Auckland, ² Department of Physiology, University of Auckland, ³ Centre for Brain Research, University of Auckland.
P20	iPSC-Derived Cardiac Organoids: A Promising Model for Testing Novel Therapies for Cardiovascular Disease	Iqbal, A. ¹ , Schwenke, D. ¹ , Katare, R. ¹	¹ Department of Physiology, University of Otago, Dunedin, NZ.
P21	Multifunctional Conductive Bioscaffolds incorporated with natural healing agents for Regeneration of Diseased Heart	<u>Andimadam</u> <u>Madana</u> <u>Saravanan</u> <u>Jekhan</u> ^{1,3} , Shubhra Sinha ¹ , Allan Gamble ² , Azam Ali ³ , Rajesh Katare ¹	¹ Department of Physiology, HeartOtago, University of Otago, Dunedin, NZ, ² School of Pharmacy, University of Otago, Dunedin, NZ, ³ Centre for

			Bioengineering and Nanomedicine, Faculty of Dentistry, University of Otago, Dunedin, NZ
P22	Reactive Oxygen Species and the Mitochondria in Aging Skeletal Muscle	<u>Miju Jung</u> ^{1,2} , James A Loehr ^{1,2} , Lijo N Varghese ¹ , Rajesh Katare ¹ , Tanya R Cully ^{1,2}	¹ Department of Physiology, HeartOtago, School of Biomedical Sciences, The University of Otago, Dunedin, New Zealand, ² RARITY – the Research Alliance for Rare Illness Translational Pathways, The University of Otago, Dunedin, New Zealand
P23	Behavioural and neural correlates of social hierarchy formation in a sex-changing fish	<u>Kaj Kamstra</u> ¹ , Haylee M. Quertermous ¹ , Chloe A. van der Burg ¹ , Simon Muncaster ² , Erica Todd ³ , Christine L. Jasoni ^{1,4} , Culum Brown ⁵ and Neil Gemmell ¹	¹ Department of Anatomy, University of Otago, Dunedin, Otago, New Zealand; ² The University of Waikato, Tauranga, New Zealand; ³ Deakin University, Geelong, Victoria, Australia; ⁴ Lincoln University, Lincoln, Canterbury, New Zealand; ⁵ Department of Biological Sciences, Macquarie University, North Ryde, New South Wales, Australia
P24	Investigating the effects of CK2 phosphorylation of RyR2 in cardiac arrhythmias	<u>Kinns, A.M.</u> ^{1,2} , Zellhuber-McMillan, U. ^{1,2} , Augustine, R.A. ^{1,2} , Munro, M.L. ^{1,2} , Jones, P.P. ^{1,2}	¹ Department of Physiology, University of Otago, Dunedin, NZ, ² HeartOtago New Zealand, University of Otago, Dunedin, NZ.
P25	Effects of respiratory sinus arrhythmia on cardiac energetics in rat ventricular muscle	<u>Chamal Kohombakadawala</u> ¹ , Toan Pham ¹ , Kenneth Tran ¹ ,	¹ Auckland Bioengineering Institute, University of Auckland, ² Department

		Andrew Taberner ^{1,2} , June-Chiew Han ¹	of Engineering Science and Biomedical Engineering, University of Auckland.
P26	Sex-Specific Mechanisms of CaMKII Nitrosylation in Cardiac Function and Arrhythmia	<u>Kruger, L.S.</u> ¹ , Wallace, R.S. ¹ , Erickson, J.R. ¹	¹ Department of Physiology and Heart Otago, University of Otago, Dunedin School of Medicine, NZ.
P27	Vasopressin neuron activity in female CALCRL-KI rats	<u>Kularathna, T.</u> , Adler, P.K., Perkinson, M.R., Brown, C.H.	Centre for Neuroendocrinology and Department of Physiology, University of Otago
P28	Inhibition of CRH Neurons on Stress Behaviours	<u>Lamberts, Y.</u> ¹ , Tripp, I. ¹ , Kim, J.S. ¹	¹ Centre for Neuroendocrinology and Department of Physiology, University of Otago, NZ
P29	A Role for Altered Mitochondrial Function in Impaired Cortical Neuron Maturation in Preterm Brain Injury	<u>Lawrence, I.M.</u> ¹ , White, P.B. ¹ , Power, A. ¹ , Davidson, J. ¹ , Lee, J. ¹ , Camm, E. ² , Dean, J.M. ¹	¹ Department of Physiology, University of Auckland, Auckland, NZ ² Department of Obstetrics and Gynaecology, Monash University, Australia
P30	Investigating the mechanism driving pregnancy-induced changes in respiration	<u>Lee, A.H.</u> ^{1,2} , Tripp, I.T. ¹ , Khant Aung, Z. ¹ , McBryde, F.D. ³ , Paton, J.F.R. ³ , Grattan, D.R. ^{1,2} , Georgescu, T. ^{1,2}	¹ Department of Anatomy and Centre for Neuroendocrinology, School of Biomedical Sciences, University of Otago, Dunedin, New Zealand. ² Maurice Wilkins Centre for Molecular Biodiscovery, New Zealand. ³ Department of Physiology, Faculty of Health & Medical

			Sciences, Manaaki Mānawa-The Centre for Heart Research, University of Auckland, Auckland, New Zealand.
P31	The evolution of inflammatory brain injury in the cerebellum of neonatal rats	<u>Lee, J.</u> ¹ , White, P. ¹ , Wilson, H. ¹ , Prasad, J. ¹ , Karunasinghe, R. ¹ , Lawrence, I. ¹ , Camm, E. ² , Dean J ¹	¹ Department of Physiology, University of Auckland, New Zealand, ² Department Obstetrics and Gynaecology, Monash University, Australia.
P32	Using a new transgenic mouse model to determine prolactin-induced enkephalin expression in the A12 neurons.	<u>L.W.C Lim</u> ¹ , D.R. Grattan ^{1,2} , S H Yip ^{1,2}	¹ Centre for Neuroendocrine, Department of Anatomy, University of Otago, Dunedin, NZ, ² Maurice Wilkins Centre, Auckland, NZ
P33	Understanding the role of GABAergic GIP signalling in the reproductive axis in female and male mice.	<u>Malcolm, M.H.</u> ^{1,2} , Anderson, G. ^{1,2} , Garratt, M. ^{1,2} , Boer, G.A. ^{1,2}	¹ Centre for Neuroendocrinology, University of Otago, Dunedin, NZ, ² Department of Anatomy, University of Otago, Dunedin, NZ
P34	NOX4 Inhibition and Eccentric Contraction in WT and Dystrophic Skeletal Muscle	<u>Margerison, A.</u> ^{1,2} , Loehr, JA ^{1,2} , Cully, TR ^{1,2} .	¹ Department of Physiology, HeartOtago, School of Biomedical Sciences, The University of Otago, Dunedin, New Zealand ² RARITY – the Research Alliance for Rare Illness Translational Pathways, The University of Otago, Dunedin, New Zealand
P35	Investigating microglial pruning of arcuate nucleus kisspeptin fibres in a PCOS-like model	<u>Meikle, S. E.</u> ¹ , Kip, E. ¹ , Herde, M. K. ¹ ,	¹ Centre for Neuroendocrinology and Department of

		Campbell, R. E. ¹	Physiology, University of Otago, Dunedin, NZ
P36	Effects of Vaping on Epithelial Ion Transport in the Lung	<u>Mohammed, N.</u> ¹ , Pishabad, Z. ¹ , Leask, M. ¹ , Fronius, M. ¹	¹ Department of Physiology, University of Otago, Dunedin, NZ.
P37	Rescuing maternal behaviour in a mouse model of maternal obesity	<u>Murray, N.J.</u> ^{1,3} , Pal, T. ¹ , Grattan DR ^{2,3} , Brown, R.S.E. ^{1,3}	¹ Department of Physiology and Centre for Neuroendocrinology, School of Biomedical Sciences, University of Otago, Dunedin, NZ. ² Department of Anatomy and Centre for Neuroendocrinology, School of Biomedical Sciences, University of Otago, Dunedin, NZ. ³ Maurice Wilkins Centre for Molecular Biodiscovery, Auckland, New Zealand.
P38	Gaining insights into the involvement of Intracranial Baroreceptors in systemic Blood Pressure Regulation. A Novel Therapeutic target for hypertension?	<u>Mutreja, P.</u> ¹ , Paton, J. ¹ , Gourine, A. ² , Thakkar, P. ¹ , McBryde, F. ¹	¹ Department of Physiology, University of Auckland, Auckland, NZ, ² Department of Neuroscience, Physiology and Pharmacology, University College London, London, UK.
P39	Modelling the Impact of Meal Macronutrients on Glucose Dynamics	<u>Rashmini Naranpanawa</u> ¹ , Nanthakumar Kekayan ¹ , Jarrah M. Dowrick ¹ , J. Geoffrey Chase ² , Gonzalo D.	¹ Auckland Bioengineering Institute, University of Auckland, Auckland, NZ, ² Department of Mechanical Engineering, University of Canterbury, Christchurch, NZ.

		Maso Talou ¹ , Merryn Tawhai ¹ , Finbar Argus ¹	
P40	Renal venous congestion increases renal sympathetic nerve activity and leads to kidney dysfunction	<u>Aikeremu Nigala</u> ¹ , Bindu George ¹ , Rohit Ramchandra ¹	¹ Department of Physiology, University of Auckland, Auckland, New Zealand
P41	A region still at risk: persistent hippocampal injury after perinatal hypoxia-ischemia despite therapeutic hypothermia in near-term fetal sheep	<u>Parry, J.</u> ¹ , McDouall, A. ¹ , Zhou, KQ ¹ ., Bennet, L ¹ ., Gunn, A ¹ ., Dean, J. ¹ , Davidson, J ¹ .	¹ Department of Physiology, University of Auckland, Auckland, NZ
P42	Investigating the role of the medial amygdala in maternal behaviour.	<u>Power, E.M.</u> ^{1,2} , and Brown, R.S.E. ^{1,2}	¹ Department of Physiology, University of Otago, Dunedin, NZ. ² Centre of Neuroendocrinology, University of Otago, Dunedin, NZ.
P43	Exploring the role of nucleus accumbens projecting serotonin neurons in maternal care.	<u>Prasad, S.</u> ¹ , Perkinson, M. ¹ , Brown, R.S.E. ¹	¹ Department of Physiology and Centre for Neuroendocrinology, School of Biomedical Sciences, University of Otago, Dunedin, NZ.
P44	IL-10 Gene Expression and Serum Levels in Chronic Hepatitis C Infection: Preliminary Findings	<u>Ruzilawati, A.B.</u> ¹ , Ismail, C.N. ^{1,3} , Asma, A.N. ⁴ , Imran, A. ²	¹ Department of Pharmacology, ² Department of Family Medicine School of Medical Sciences, Universiti Sains Malaysia, Kota Bharu, Kelantan, Malaysia, ³ Department of Biomedical Sciences, Faculty of Medicine and Health Sciences, Universiti Malaysia Sabah, Kota Kinabalu,

			Sabah, Malaysia, ⁴ Biomedicine Programme, School of Health Sciences, Universiti Sains Malaysia, Kota Bharu, Kelantan, Malaysia
P45	Investigating stress-induced disruption of paternal behaviours in male mice	<u>Saunders, V.E</u> ¹ , Cheong, I. ¹ McQuillan, J. ¹ , Brown, R. ¹	¹ Department of Physiology and Centre for Neuroendocrinology, School of Biomedical Sciences, University of Otago, Dunedin, NZ
P46	Impact of Chronic Hypothalamic Stress Neuron Hyperactivity on Mood Outcomes	<u>Tamatea S. Schweikert</u> , Kai S. Woolf, Isaac T. Tripp, Karl J. Iremonger, and Joon S. Kim	¹ Centre for Neuroendocrinology, University of Otago, Dunedin, NZ, ² Department of Physiology, University of Otago, Dunedin, NZ.
P47	Investigating the role of the epicardial adipose tissue secretome and obesity in atrial fibrillation	<u>Kyra T. Sinclair</u> ¹ , Ingrid C. Fomison-Nurse ¹ , Willow De Jonge ¹ , Philip J. Davis ² , Lisa Lim ² , Richard W. Bunton ² , Michael J.A. Williams ³ , Torsten Kleffmann ⁴ , Sean Coffey ³ , Regis R. Lamberts ¹	¹ Department of Physiology and HeartOtago, University of Otago, Dunedin, NZ, ² Department of Cardiothoracic Surgery and HeartOtago, Dunedin Hospital, Dunedin, NZ, ³ Department of Medicine and HeartOtago, Dunedin Hospital, Dunedin, NZ, ⁴ Department of Biochemistry, University of Otago, Dunedin, NZ
P48	Composite nanomatrix for diabetic wound healing treatment	<u>Sinha, S.</u> ¹ , Saravanan, A.M., J., ¹ Ali, A. ² , Gamble, A. ³ , Hook, S. ³ , Katare, R. ¹	¹ Department of Physiology, HeartOtago, School of Biomedical Sciences, University of Otago, Dunedin, NZ, ² Faculty

			of Dentistry, University of Otago, Dunedin, NZ, ³ School of Pharmacy, University of Otago, Dunedin, NZ.
P49	The Sympathetic Brain Drain: How Alterations of Sympathetic Outflow Modulate Brain Waste Clearance	<u>Sloan J</u> ¹ , Emans T ¹ , McBryde F ¹	¹ Department of Physiology, Faculty of Medical & Health Science, University of Auckland, Auckland, New Zealand
P50	Oral letrozole administration offers more sustained phenotype induction than subcutaneous implants in a mouse model of polycystic ovary syndrome.	<u>Stevenson, K.A.</u> ¹ , Anderson, G.M. ¹ , Campbell, R. C. ² , Decourt, C. ¹	¹ Department of Anatomy and Centre for Neuroendocrinology, University of Otago, Dunedin, NZ ² Department of Physiology and Centre for Neuroendocrinology, University of Otago Dunedin, NZ
P51	Investigating the Role of the Little-Known Phosphatase PTPN2 in Leptin Signaling, Obesity and Diet-Induced Infertility	Tan, K. ¹ , Decourt, C. ¹ , Anderson, G.A. ¹	¹ Centre for Neuroendocrinology, Dept of Anatomy, University of Otago, Dunedin, NZ
P52	Stress-induced changes in physical activity and arousal are dependent on environmental context and stress duration	<u>Tripp, I.T.</u> , Schweikert, T.S., Woolf, K.S., Young, C.K., Power, E.M., Iremonger, K.J., Kim, J.S.	Department of Physiology and Centre for Neuroendocrinology, University of Otago, Dunedin, NZ.
P53	Cross-species analysis of age-and sex-specific dysregulation of cardiac-enriched microRNAs and their therapeutic restoration using lipid nanoparticles	<u>Varghese, L.N.</u> ¹ , Sheard, P. ¹ , Schwenke D.O. ¹ , Katare R. ¹	¹ Department of Physiology, HeartOtago, University of Otago, Dunedin, NZ.

P54	Arterial baroreflex sensitivity and the cardiovascular responses to standing in Postural Orthostatic Tachycardia Syndrome (POTS)	<u>Veer A.S.</u> , Pugh G.E. ¹ , Fan J-L ¹ , Fisher J.P. ¹	¹ Department of Physiology, Faculty of Medical & Health Sciences, University of Auckland, Auckland, New Zealand.
P55	Lactation Enhances Opioid Signalling in Arcuate Nucleus Dopaminergic (A12) Neurons in Rats	Cromb, P. ¹ , Watanabe, Y. ² , Grattan, D.R. ^{1,3} , <u>Yip, S.H.</u> ^{1,3}	¹ Department of Anatomy, University of Otago, Christchurch, NZ, ² Asahikawa Medical University, Asahikawa, Japan, ³ Maurice Wilkins Centre for Molecular Biodiscovery, Auckland, NZ.
P56	Literature review of breast protection equipment use and efficacy in women's contact sports.	<u>Tristan Youinou</u> ¹ , Elisabeth M.P. Williams ³ , Paul D. Docherty ² , Phil Newman ¹ , Daniel Cottam ^{1,4} , Celeste E. Coltman ¹	¹ University of Canberra Research Institute for Sport and Exercise, Faculty of Health, University of Canberra, Canberra, Australia, ² Department of Mechanical Engineering, University of Canterbury, Christchurch, NZ, ³ Applied Sports, Technology, Exercise and Medicine Research Centre (A-STEM), Swansea University, Wales, UK, ⁴ Australian Institute of Sport, Canberra, Australia.
P57	Multivariate Analysis Pipeline for Batch-Corrected Functional-Structural Brain Mapping in Larval Zebrafish	<u>Young, C.K.</u> ¹ , Darroch, H. ¹ , Leask, M.P. ¹	¹ Department of Physiology and the Centre for Neuroendocrinology, University of Otago, Dunedin, NZ.
P58	Modelling haemorrhage and physiological response in penetrating trauma	<u>Jayakody, A.S.</u> ¹ , Suresh, V. ^{1,2} , Argus, F. ¹	¹ Auckland Bioengineering Institute, University of

			Auckland, Auckland, NZ., ² Department of Engineering Science and Biomedical Engineering, University of Auckland, Auckland, NZ.
P59	Visual biomarker development for early identification of dopaminergic dysfunction in the retina	<u>Rao, A.</u> ¹ Acosta, M.L. ^{1,2} , Lloyd, J.T. ^{1,2}	¹ School of Optometry and Vision Science, University of Auckland, Auckland, NZ, ² Centre for Brain Research, University of Auckland, Auckland, NZ