

QRW Programme

Mitochondrial Biology

Thursday 7 – Friday 8 September, 2017
Rydges Hotel, Queenstown, New Zealand

Thursday 7 September

Time	Details	Location
Session 1: Plenary Chair Mark Hampton		
9.00am - 9.10am	Welcome	QT 1
9.10am - 10.00am	Mike Ryan (M1) Monash University, Melbourne <i>Assembly of mitochondrial complex I</i>	QT 1
10.00am-10.30am	Morning Tea	Trades Area
Session 2: Disease Chair Mike Berridge		
10.30am - 11.00am	Ann Frazier (M2) Murdoch Children's Research Institute, Melbourne <i>Deletions and gene conversions in the ATAD3 gene cluster result in cerebellar developmental defects linked to mtDNA and cholesterol</i>	QT 1
11.00am - 11.30am	Ryan Davis (M3) Kolling Institute, Sydney <i>Diagnosis of mitochondrial diseases</i>	QT 1
11.30am - 11.45pm	Runa Lindblom (M4) Monash University, Melbourne <i>Blockade of the mitochondrial transition pore in diabetic kidney disease</i>	QT 1
11.45pm - 12.00pm	Aziz Aiderus (M5) University of Otago, Dunedin <i>Insights into the prognostic association of fatty acid oxidation in cancer</i>	QT 1
12.00pm - 12.30pm	Elizabeth Ledgerwood (M6) University of Otago, Dunedin <i>Insights into function from naturally occurring cytochrome c mutations</i>	QT 1
12.30 - 1.30pm	Lunch	Trades Area
Session 3: Signalling (Joint with QMB Signalling) Chair Mark Hampton		
1.30pm - 2.00pm	Nigel Turner (M7) University of New South Wales, Sydney <i>Exploring mitochondrial stress signalling</i>	QT 1
2.00pm - 2.30pm	Troy Merry (M8) University of Auckland <i>The insulin receptor in ageing and fatty liver disease</i>	QT 1
2.30pm - 3.00pm	Shane Thomas (M9) University of New South Wales, Sydney <i>Novel role for the mitochondrial sodium/calcium exchanger NCLX in regulating VEGF-induced signalling in endothelial cells</i>	QT 1

3.00pm - 3.30pm	Feifan Guo (M10) Shanghai institute for Biological Sciences, China <i>Amino acid signalling in metabolic disease</i>	QT 1
3.30pm - 4.00pm	Afternoon Tea	Trades Area
<u>Session 4: Cell Death & Differentiation</u> Chair Liz Ledgerwood		
4.00pm - 4.30pm	Grant Dewson (M11) <i>sponsored by Bio-Rad Laboratories Pty Ltd</i> Walter & Eliza Hall Institute, Melbourne <i>(Re)Defining the molecular control of mitochondrial apoptosis</i>	QT 1
4.30pm - 4.45pm	Rinky Parakra (M12) University of Otago, Dunedin <i>Relationship between cytochrome c and cardiolipin oxidation is highly dependent upon the experimental conditions</i>	QT 1
4.45pm - 5.00pm	Kui Xie (M13) University of Auckland <i>Lutein-mediated increased in mitochondrial respiration is associated with promotion of neuronal differentiation</i>	QT 1
5.00pm - 5.30pm	Mark Hampton (M14) University of Otago, Christchurch <i>MLKL-dependent disruption of mitochondrial function and redox homeostasis during the initiation of TNF-mediated necroptosis</i>	QT 1

Friday 8 September		
Time	Details	Location
<u>Session 5: Physiology I</u> Chair Melanie McConnell		
9.00am - 9.30am	Mike Berridge (M15) <i>sponsored by Abacus ALS</i> Malaghan Institute of Medical Research, Wellington <i>Mitochondrial transfer in the brain: breaking bioenergetics boundaries</i>	QT 1
9.30am - 10.00am	Anthony Hickey (M16) University of Auckland <i>Natural models of hypoxia tolerance in New Zealand Triplefin fish</i>	QT 1
10.00am - 10.30am	Morning Tea	Trades Area
<u>Session 6: Physiology II</u> Chair Anthony Hickey		
10.30am - 11.00am	Melanie McConnell (M17) <i>sponsored by Thermo Fisher Scientific</i> Victoria University of Wellington <i>Rescue of mitochondrial depletion in astrocytes by co-culture involves large scale mitochondrial transfer</i>	QT 1
11.00am - 11.15am	Matthew Rowe (M18) Victoria University of Wellington	QT 1

	<i>Single molecule genotyping for in situ detection and quantification of intercellular mitochondrial transfer</i>	
11.15am - 11.30am	Jules Devaux (M19) University of Auckland <i>Maintenance of mitochondrial function at low intracellular pH: an advantage of hypoxia tolerant species?</i>	QT 1
11.30am - 11.45am	Stewart Masson (M20) University of Auckland <i>Mitochondrial glycerophosphate dehydrogenase facilitates pre-flight thermogenesis in <i>Bombus terrestris</i></i>	QT 1
11.45am - 12.15pm	Lan-Feng Dong (M21) Griffith University, Southport <i>Horizontal transfer of whole mitochondria restores tumorigenic potential in mtDNA-deficient cancer cells</i>	QT 1
12.15pm - 12.45pm	Alex Rowland (M22) <i>sponsored by Agilent</i> In Vitro Technologies <i>Seahorse XF Technology for beginners and experts</i>	QT 1
12.45pm - 1.45pm	Lunch	Trades Area
<u>Session 7: Exercise and Metabolism</u>		
Chair Troy Merry		
1.45pm - 2.15pm	Sean McGee (M23) <i>sponsored by In Vitro Technologies</i> Deakin University, Geelong <i>Epigenetic mechanisms regulating exercise adaptations and mitochondrial metabolism in muscle</i>	QT 1
2.15pm - 2.30pm	Rachel Zussman (M24) University of Auckland <i>Placental metabolism and the role of mitochondrial glycerol 3-phosphate dehydrogenase</i>	QT 1
2.30pm - 2.45pm	Masuma Zawari (M25) University of Otago, Christchurch <i>Assessing mitochondrial activity and response to oxidative stress in human monocytes and lymphocytes</i>	QT 1
2.45pm - 3.00pm	Christopher Hedges (M26) University of Auckland <i>Can PBMCs predict skeletal muscle mitochondrial adaptation to training?</i>	QT 1
3.00pm - 3.30pm	Glenn Wadley (M27) Deakin University, Melbourne <i>Muscling in on mitochondria and oxidative stress</i>	QT 1
3.30pm - 4.00pm	Afternoon Tea	Trades Area
4.00pm - 5.00pm	<u>Session 8: Group Discussion</u> Chair Tony Hickey Topic(s) to be announced	QT 1
5.00pm	Conference close	QT 1