

SFRR(A) 2019 - Programme

Saturday 8th December

Time	
5:00pm-7:30pm	Registration Opens
5:30pm-7:30pm	Networking Event

Sunday 9th December - Morning

Time	Abstract Reference	Speaker	Speaker
7.00am-8.00am	Registration		
8.00am-8.50am	T1 Educational Seminar	Michael Davies	Oxidation by numbers
Chairperson		Mark Hampton	
9.00am -9.45am	T 2	Roland Stocker	Myeloperoxidase is a potential target for the identification and stabilisation of high-risk atherosclerotic plaque.
9.45am-10.15am	Morning Tea		
Chairperson		Michael Davies: Redox Proteins	
10.15am-10.35am	T 3	Mark Hampton	Oxidative inactivation of caspase-8 enables the initiation of TNF-mediated necroptosis
10.35am-10.55am	T 4	Taufik Abidin	A Nitric Oxide Transport and Storage System Formed by GSTP1 and MRP1 in Activated Macrophages
10.55am-11.15am	T 5	Kathryn Wolhuter	S-nitrosation acts primarily as a transient intermediate to disulfide formation during nitrosative signalling
11.15am-11.35pm	T 6	Elizabeth New	Molecular imaging tools for the study of reactive oxygen species in biology
11.35am-11.55am	T 7	Chris Stanley	Singlet molecular oxygen regulates vascular tone in inflammation
11.55am-12.15pm	T 8	Volker Blank	CNC and MAF transcription factors: stress, cancer, knock outs and other serious matters

Sunday 9th December - Afternoon

12.15pm-1.15pm		Lunch	
Chairperson		Roland Stocker: Oxidants	
1.15pm-1.35pm	T 9	Christine Winterbourn	Bicarbonate: A possible player in redox regulation
1.35pm-1.55pm	T 10	Michael Davies	Tropoelastin oxidation by peroxynitrous acid: a key modulator of extracellular matrix structure and function
Student Talks: Chair Troy Merry			
1.55pm-2.05pm	T 11	Fangfei Liu	Redox-regulation of AngII-induced Cardiac Hypertrophy and Apoptosis: A Study Using p47phox Knockout Mice
2.05pm-2.15pm	T 12	Reuben Springer	Staphylococcus aureus survival inside the neutrophil phagosome
2.15pm-2.25pm	T 13	Han Shi	Efficacy of 4-methoxy-Tempo Tempol in ameliorating experimental myocardial infarct
2.25pm-2.35pm	T 14	Yuyang Liu	Thiocyanate alters the myeloperoxidase-mediated damage pattern without improving experimental colitis
2.35pm-2.45pm	T 15	Jesse Fischer	Peroxiredoxins as markers of oxidative stress: potential predictors of response to radiotherapy for rectal cancer?
2.45pm-2.55pm	T 16	Railmara Pereira da Silva	Identification of Urate Hydroperoxide in Neutrophils: a Novel Pro-oxidant Generated in Inflammatory Conditions
2.55pm-3.05pm	T 17	Sharleen Menezes	Redox-active thiosemicarbazones inhibit oncogenic signaling through an up-regulation of the tumour suppressor, MIG6.
3.05pm-3.15pm	T 18	Jules Devaux	Mitochondrial plasticity in response to anoxia-reoxygenation: contrasted responses in two anoxia-tolerant sharks.
3.15pm-3.45pm		Afternoon Tea	
Chairperson		Bob Anderson: Antioxidants and Oxidants	
3.45pm-4.05pm	T 19	Steven Bottle	Dual Action Nitroxide Antioxidants: Extending the mode of action through the combination of two functionalities
4.05pm-4.25pm	T 20	Alexander Leathem	TEMPO reduces oxidative stress but not inflammation in a cell model of Parkinson's Disease
4.25pm-4.45pm	T 21	Patrick San Gabriel	Efficacy of TEMPO in Ameliorating Experimental Colitis and Colorectal Cancer
4.45pm-5.05pm	T 22	Brian Day	Novel approach to create antioxidants that supplement innate immunity in cystic fibrosis
5.05pm-5.25pm	T 23	Guy Jameson	Are Reactive Oxygen Species Formed During Thiol Dioxygenation?
5.25pm-5.45pm	T 24	Bob Anderson	Radical chemistry insights on the hypoxia-selectivity of anticancer prodrugs.
5.45pm-7.45pm		Poster Session	

Monday 10th December - Morning

Time	Abstract Reference	Speaker	Topic
7.00am-8.00am Registration			
8.00am-8.50am	25 Educational Seminar	Roland Stocker	Assessing the contribution of reactive oxygen species in biological systems
Chairperson		Tony Hickey	
9.00am -9.45am	T 26	Albert van der Vliet	Redox mechanisms in innate airway epithelial injury responses and allergic airway diseases Interplay between DUOX1 and mitochondria.
9.45am-10.15am Morning Tea			
Chairperson		Paul Witting: Myeloperoxidase and Ageing	
10.15am-10.35am	T 27	Martina, Paumann-Page	Peroxidasin, a newly identified peroxidase, and its role in invasive metastatic melanoma
10.35am-10.55am	T 28	David Cheng	Inhibition of myeloperoxidase attenuates endothelial dysfunction in mouse models of vascular inflammation and atherosclerosis
10.55am-11.15am	T 29	Louisa Ashby	Detection of hypochlorous acid in neutrophil phagosomes with probe R19S: a chlorinated product and real-time fluorescence
11.15am-11.35am	T 30	Julie Lim	The lens as a reservoir of glutathione: a new view of the role of the lens in the eye
11.35am-11.55am	T 31	Tadeusz Sarna	Photoinduced oxidative stress mediated by the age pigment lipofuscin impairs key biological functions of retinal pigment epithelium
11.55am-12.15pm	T 32	Paul Witting	Evidence supporting oxidative stress in a moderately affected area of the brain in Alzheimer's disease

Monday 10th December - Afternoon

12.15pm-1.15pm Lunch			
Chairperson		Elizabeth Ledgerwood: Metal transport/Haem	
1.15pm-1.35pm	T 33	Des Richardson	The iron chaperone, PCBP2, forms a metabolon with the heme oxygenase 1/cytochrome P450 reductase complex for heme catabolism and intracellular iron transfer.
1.35pm-1.55pm	T 34	Jereme Spiers	Dysregulation of metal ion transporters and chaperones contributes to oxidative stress during prion disease pathogenesis
1.55pm-2.15pm	T 35	Stephanie Kong	The role of post-translational modification in the ability of Hmox1 to regulate neo-intimal hyperplasia
2.15pm-2.35pm	T 36	Leyla Fouani	Targeting NF-κB Signaling to Reverse the EMT with NDRG1 and Thiosemicarbazones in Pancreatic Cancer.
2.35pm-2.55pm	T 37	Elizabeth Ledgerwood	Characterising cytochrome c variants causing thrombocytopenia
2.55pm-3.15pm	T 38	Patric Jansson	Metabolic tumor stress induces intracellular Pgp-mediated drug-resistance, which can be exploited by lysosomal-targeting agents
3.15pm-3.45pm Afternoon Tea			
Chairperson		Jiri Neuzil: Cancer	
3.45pm-4.05pm	T 39	Sona Hubackova	Simultaneous targeting of dihydroorotate dehydrogenase and cell cycle checkpoints suppresses tumor progression
4.05pm-4.25pm	T 40	Trevor Mori	Lipid mediators in the resolution of inflammation
4.25pm-4.45pm	T 41	Lionel Leck	Overcoming Pgp-mediated drug-resistance by releasing lysosomal stored doxorubicin with lysosomal targeting agents
4.45pm-5.30pm	T 42	Clare Hawkins	New pathways of cellular dysfunction induced by myeloperoxidase during chronic inflammation
Free evening to relax or explore			

Tuesday 11th December

Time	Abstract Reference	Speaker	Topic
7.00am-8.00am	Registration		
8.00am-8.50am	43 Educational Seminar	Trevor Mori	Biomarkers of lipid oxidative damage in cardiovascular disease and clinical medicine
Chairperson		Bob Anderson	
9.00am -9.45am	T 44	Mike Murphy	Mitochondrial redox homeostasis in health and disease
9.45am-10.15am	Morning Tea		
Chairperson		Mike Murphy: Mitochondria structure/function/transfer	
10.15am-10.35am	T 45	Gary Cecchini	Assembly and Activity of Complex II (Succinate-Quinone Oxidoreductase) of the Mitochondrial Respiratory Chain
10.35am-10.55am	T 46	Katerina Vanova	Alternative assembly of respiratory complex II regulates energy balance under bioenergetic stress
10.55am-11.15am	T 47	Anita Ayer	A novel pathway regulating cellular concentrations of the essential redox-active lipid coenzyme Q
11.15am-11.35am	T 48	Jiri Neuzil	Oxidative phosphorylation is not required for tumour formation and progression
11.35am-11.55am	T 49	Lan-Feng Dong	Horizontal transfer of whole mitochondria restores tumorigenic potential in mitochondrial DNA-deficient cancer cells
11.55am-12.15pm	T 50	Michael Berridge	Effects of mitochondrial DNA damage on nuclear gene expression in a metastatic breast cancer model
12.15pm-1.15pm	AGM / Box Lunch		
1.15pm-1.30pm	Bus departs 1.30pm		
1.30pm-2.30pm	Travel to Gannet Colony		
2.30pm-3.30pm	View Gannets		
3.30pm-4.00pm	Travel to West Brook Winery		
4.00pm-5.00pm	Wine & Nibbles		
5.00pm-6.00pm	Travel back to UoA		
6.00pm-6.45pm	Get ready for dinner		
6.45pm-7.00pm	Bus departs to RNZYS 6.45pm		
7.00pm - 10.30pm	Conference Dinner at RNZYS		
10.30pm	Last bus returns to UoA (TBC)		

Wednesday 12th December

Time	Abstract Reference	Speaker	Topic
7.00am-9.00am			
			Recuperation
Chairperson		Troy Merry	
9.00am -9.45am	T 51	Glenn McConell	How is skeletal muscle glucose uptake increased during exercise and insulin sensitivity increased after exercise?
9.45am-10.15am			
			Morning Tea
Chairperson		Tony Hickey: Oxidative Stress	
10.15am-10.35am	T 52	Troy Merry	A role for reactive oxygen species and mitochondrial derived peptides in mediating exercise responses
10.35am-10.55am	T 53	Christopher Hedges	The role of pH in regulating skeletal muscle mitochondrial superoxide/H ₂ O ₂ generation.
10.55am-11.15am	T 54	Nina Dickerhof	Oxidation of small molecular weight thiols in <i>Pseudomonas aeruginosa</i> during phagocytosis by human neutrophils
11.15am-11.35am	T 55	Witek Korytowski	Increased aggressiveness and metastatic potential of surviving targeted cells and non-targeted bystanders cells in a breast cancer photodynamic therapy model
11.35am-11.55am	T 56	Margreet Visser	Ascorbate as an essential co-factor for the 2-oxoglutarate-dependent dioxygenases
11.55am-12.15pm	T 57	Tony Hickey	Adapting to high and low oxygen: New Zealand triplefin fish a model to study brain mitochondrial function in hypoxia and hyperoxia