

Day 1 : Tuesday 1 December 2009

11.00am – 1.00pm Arrival and Registration
Set up posters for Session 1

1.00pm – 1.10pm **OPENING REMARKS**
Webster Theatre **ROLAND STOCKER**

Session 1: **Antioxidants in Health & Disease** **Chairs: R Stocker & M Inoue**
Webster Theatre *Sponsored by the Linus Pauling Institute*

1.15pm – 1.45pm **PLENARY LECTURE**
BALZ FREI, Linus Pauling Institute, Oregon State University, Corvallis, U.S.A.
Vascular oxidative stress and inflammation in atherosclerosis and aging: ameliorating effects of α -lipoic acid supplementation

1.45pm – 2.05pm **KEVIN D CROFT**, School of Medicine and Pharmacology, University of Western Australia, Perth, Australia
Dietary polyphenols and cardiovascular risk

2.05pm – 2.20pm **IRIS BENZIE** Department of Health Technology & Informatics, The Hong Kong Polytechnic University, Kowloon, Hong Kong, China
Regular intake of green tea protects DNA from oxidative damage, but not through effects on the nucleotide pool: results of a controlled human intervention trial

2.20pm – 2.35pm **MICHAEL WHITEHOUSE**, Schools of Medicine, Griffith University, Gold Coast and University of Queensland, Brisbane, Australia
Squalene: antioxidant, immunostimulant and now an ROS-mediated pathogen?

2.35pm – 2.50pm **LIBOR VÍTEK**, Institute of Clinical Biochemistry and Laboratory Diagnostics, 4th Department of Internal Medicine, Charles University, Prague, Czech Republic
Relationship between serum bilirubin and peroxy radical scavenging capacity in healthy subjects and patients with premature atherosclerosis

2.50pm – 3.05pm **HIROKO SHIMAZAKI**, Department of Clinical Pharmacology, Niigata University of Pharmacy and Applied Life Sciences, Japan
▶ *The antioxidant edaravone attenuates cardiac apoptosis and dysfunction in rats with autoimmune myocarditis by regulating MAPK signalling pathway*

Afternoon Tea/Coffee
3.05pm – 3.30pm
Set up posters for Poster Session 1

Webster Theatre

- 3.30pm – 4.00pm **PLENARY LECTURE**
SUE GOO RHEE, Division of Life and Pharmaceutical Sciences, Ewha Woman's University, Seoul, Korea
Inactivation of peroxiredoxin I by tyrosine phosphorylation at lipid rafts allows spatially controlled accumulation of H₂O₂ for intracellular signaling by growth factor or immune receptors
- 4.00pm – 4.20pm **CHRISTINE WINTERBOURN**, Department of Pathology, University of Otago Christchurch, New Zealand
Thiol chemistry and specificity in redox signalling
- 4.20pm – 4.40pm **YOSHIHITO IUCHI**, Department of Biochemistry and Molecular Biology, Graduate School of Medical Science, Yamagata University, Japan
Oxidative stress causes hemolytic anemia by triggering redox imbalance in red blood cells
- 4.40pm – 4.55pm **MERRIDEE WOUTERS**, Structural & Computational Biology, Victor Chang Cardiac Research Institute, Darlinghurst, Australia
Conformational transitions associated with different redox states of di-thiol pairs

Welcome Reception

5.00pm – 7.00pm

Pfizer Foyer & WP Young Room

Day 2 : Wednesday 2 December 2009

Education Session 1: Biological Oxidants & Reactivities

Webster Theatre

8.00am – 8.45am **MICHAEL DAVIES**, The Heart Research Institute, Sydney, Australia

Session 3: Oxidative Stress and Cancer

Chairs: G Haliday & S Toyokuni

Webster Theatre

9.00am – 9.20am **MASAYASU INOUE**, Department of Biochemistry & Molecular Pathology, Osaka City University Medical School, Osaka, Japan
Mitochondrial theory of carcinogenesis, chemotherapy and multi-drug resistance

9.20am – 9.40am **SHINYA TOYOKUNI**, Department of Pathology and Biological Responses, Nagoya University Graduate School of Medicine, Nagoya, Japan
Asbestos-induced carcinogenesis is oxidative stress-dependent

9.40am – 10.00am **IRMGARD IRMINGER-FINGER**, Molecular Gynecology and Obstetrics Laboratory, University Hospitals Geneva, Geneva, Switzerland
Hypoxia modulates BARD1 expression and function: Upregulated full length BARD1 induces apoptosis, upregulated isoforms have oncogenic functions

10.00am – 10.15am **JIRI NEUZIL**, School of Medical Science, Griffith University, Southport, Australia
Mitochondrially targeted mitocans: A new paradigm for efficient cancer therapy

10.15am – 10.30am **LIZA SNOW**, School of Human Life Sciences, University of Tasmania, Launceston, Australia
Impact of arsenic exposure on levels of short-patch base excision repair transcripts in lactating and adult mice

Session 4: Free Radical Chemistry I

Chairs: S Bottle & D Pattison

WP Young Rooms

9.00am – 9.20am **PHILIP BARKER**, BlueScope Steel Research, Port Kembla, Australia
Reactive oxygen species from sunscreens – mind where you put your hands!

9.20am – 9.40am **HIROTATSU KOJIMA**, Chemical Biology Research Initiative, The University of Tokyo, Tokyo, Japan
Development of near-infrared fluorescent probes for bioimaging of nitric oxide and reactive oxygen species

9.40am – 9.55am **ROBERT ANDERSON**, Auckland Cancer Society Research Centre, The University of Auckland, Auckland, New Zealand
Formation of active radicals upon the bioreduction of the benzotriazine di-N-oxide class of anticancer drugs

9.55am – 10.10am **ROBERT O'REILLY**, School of Chemistry and ARC Centre of Excellence for Free Radical Chemistry and Biotechnology, The University of Sydney, Sydney, Australia

▶ *Hydrogen abstraction by chlorine atom from amino acids and their N-acetylated derivatives: a remarkable contrathermodynamic influence on the regioselectivity*

10.10am – 10.25am **PHILIP MORGAN**, The Heart Research Institute, Sydney, Australia
Radiation-induced peptide hydroperoxide formation and fragmentation occurs in a site-specific manner

Morning Tea/Coffee 10.30am – 11.00am

Session 5: Oxidative Stress in Diabetes **Chairs: S McLennan & J de Haan**
Webster Theatre

11.00am – 11.20am **KYLE HOEHN**, Department of Pharmacology, University of Virginia, Charlottesville, U.S.A.
Insulin resistance is a cellular response to mitochondrial superoxide

11.20am – 11.35am **LOUISE DUNN**, The Heart Research Institute, Sydney, Australia
Rescue of diabetes-related impairment of angiogenesis by gene silencing of thioredoxin-interacting protein

11.35am – 11.50am **ANJALI JOSHI**, Department of Pharmacology, University of Melbourne, Melbourne, Australia
Investigation of the mechanism of endothelium-dependent relaxation in thoracic aorta in diabetic rats

11.50am – 12.05pm **JUDY DE HAAN**, Oxidative Stress Laboratory and Diabetes Complications Division, Baker IDI Heart and Diabetes Institute, Melbourne, Australia
Anti-atherosclerotic and renoprotective effects of ebselen in the diabetic apolipoprotein E/GPx1-double knockout mouse

12.05pm – 12.20pm **NICOLE STUPKA**, Institute for Technology Research and Innovation, Deakin University, Geelong, Australia
Excess fatty acids cause oxidative and ER stress in skeletal muscle resulting in insulin resistance: a putative modulatory role for the selenoprotein SEPS1

Session 6: Photobiology Chairs: V Reeve & S Byrne

WP Young Rooms

- 11.00am – 11.20am **VIVIENNE REEVE**, Faculty of Veterinary Science, The University of Sydney, Australia
The gender bias in immune responsiveness to UV radiation in mice
- 11.20am – 11.35am **TERRENCE PIVA**, School of Medical Sciences, RMIT University, Bundoora, Australia
The effects of UV radiation on furin activation of TACE in human keratinocyte cell lines
- 11.35am – 11.50am **DEVITA SURJANA**, Dermatology, Sydney Cancer Centre, University of Sydney and Royal Prince Alfred Hospital, Camperdown, Australia
▶ *Nicotinamide protects from ultraviolet radiation-induced DNA damage by enhancing DNA repair*
- 11.50am – 12.05pm **ALDWIN SURYO RAHMANTO**, Free Radical Group, The Heart Research Institute, Sydney, Australia
▶ *Enzyme inhibition and adaptive responses of murine macrophage-like cells to intracellular hydroperoxide generated by photosensitisation reaction*
- 12.05pm – 12.20pm **AN TAN**, Malaghan Institute of Medical Research, Wellington, New Zealand
Effects of mitochondrial DNA deletion on tumorigenicity of metastatic melanoma cells in vitro and in vivo

Lunch Break 12.30pm – 1.30pm	MEPSA AGM 12.30pm – 1.30pm Webster Theatre
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Session 7: Free Radical Chemistry 2 Chairs: C Easton & P Witting

Webster Theatre

- 1.30pm – 1.50pm **STEVEN BOTTLE**, School of Physical and Chemical Sciences, Queensland University of Technology, Brisbane, Australia.
Using profluorescent nitroxides to probe the cellular redox environment
- 1.50pm – 2.10pm **STEPHEN BLANKSBY**, School of Chemistry, University of Wollongong, Wollongong, Australia
Gas phase reactions of distonic radical ions with dioxygen
- 2.10pm – 2.25pm **DAVID PATTISON**, The Heart Research Institute, Sydney, Australia
Do superoxide radicals act synergistically with hypochlorite and hypobromite to induce biological damage?
- 2.25pm – 2.40pm **JAN GEBICKI**, Dept. of Biological Sciences, Macquarie University, Sydney, Australia
Measurement of the rate constants of reactions of ascorbate with amino acid and protein radicals by pulse radiolysis

2.40pm – 2.55pm **PETER NAGY**, Department of Pathology, University of Otago, Christchurch, New Zealand
Rapid reaction of superoxide with insulin-tyrosyl radical results in hydroperoxide formation: a kinetic study

Session 8: Photoimmunology Chairs: P Hart & M Grimaldeston

WP Young Rooms

1.30pm – 1.50pm **PRUE HART**, Telethon Institute for Child Health Research and Centre for Child Health Research, University of Western Australia, Perth, Australia
Dissecting the mechanisms of reduced allergic airways disease in UV-irradiated mice

1.50pm – 2.10pm **SCOTT BYRNE**, Department of Infectious Diseases and Immunology, The University of Sydney, Sydney, Australia
The immune suppressive cytokine interleukin-33 is up-regulated in UVB-exposed skin

2.10pm – 2.25pm **HEATHER MCGEE**, Menzies Research Institute, University of Tasmania, Australia
Neonatal exposure to solar simulated ultraviolet radiation leads to deviation of immune development

2.25pm – 2.40pm **GEORGIA FROST**, Dermatology, The University of Sydney, Royal Prince Alfred Hospital, Sydney, Australia
▶ *Topical photodynamic therapy is immunosuppressive in humans*

2.40pm – 2.55pm **KYOUNG-CHAN PARK**, Department of Dermatology, Seoul National University Bundang Hospital, Gyeonggi-do, Korea
Free radical stress and vitiligo

**Afternoon Tea/Coffee
2.55pm – 3.20pm**

Session 9: Oxidative Stress & CVD 1 Chairs: B Kemp-Harper & B Frei

Webster Theatre Sponsored by ASCEPT

3.20pm – 3.50pm **PLENARY LECTURE**
JOHN KEANEY, University of Massachusetts Medical School, Worcester, U.S.A.
Mitochondrial modulation of endothelial cell phenotype

3.55pm – 4.15pm **CHRIS SOBEY**, Department of Pharmacology, Monash University, Melbourne, Australia
Evidence that infiltrating T lymphocytes containing Nox2 may cause oxidative damage to the brain after stroke and that it occurs to a greater extent in males versus females

- 4.15pm – 4.30pm **SAYAKA MITO**, Department of Clinical Pharmacology, Niigata University of Pharmacy and Applied Life Sciences, Niigata, Japan
▶ *Protective effect of curcumin against cardiac inflammation and oxidative stress in rats with autoimmune myocarditis*
- 4.30pm – 4.45pm **CRAIG HARRISON**, Department of Pharmacology, Monash University, Melbourne, Australia
Evidence that nitric oxide inhibits vascular inflammation and superoxide production via a p47^{phox}-dependent mechanism
- 4.45pm – 5.00pm **MARIA LÖNN**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
Adaptation of cells to chronic heme oxygenase-1 expression involves increased superoxide anion production and alterations in cellular iron homeostasis

Session 10: Metals, Oxidants and Disease Chairs: D Richardson & G Nie

WP Young Rooms

- 3.55pm – 4.15pm **GUANGJUN NIE**, CAS Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety, National Center for Nanoscience and Technology of China, Beijing, China
Lysosomal proteolysis is the primary degradation pathway for cytosolic ferritin and cytosolic ferritin degradation is necessary for iron exit
- 4.15pm – 4.35pm **SHARON LA FONTAINE**, School of Life & Environmental Sciences, Deakin University, Melbourne, Australia
Antioxidant and stress-induced proteins: new players in mammalian copper homeostasis that regulate the copper transporting P-type ATPases, ATP7A and ATP7B
- 4.35pm – 4.50pm **YU YU**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
▶ *Thiosemicarbazone iron chelator inhibits cancer cell growth by affecting the thiol-based anti-oxidants*
- 4.50pm – 5.05pm **MICHAEL HUANG**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
▶ *Mechanism of mitochondrial iron-loading in Friedreich's Ataxia: elucidation by analysis of a mouse mutant*
- 5.05pm – 5.20pm **ARINDAM BHATTACHARYYA**, Department of Zoology, University of Calcutta, Kolkata, West Bengal, India
▶ *Cell cycle arrest and apoptosis by cadmium: role of reactive oxygen species*

Poster Session 1 – A – L (by Surname) & ASCEPT Posters

5.30pm – 7.00pm

WP Young Rooms, Foyers & Palfrey Room

Remove Session 1 Posters

Day 3 : Thursday 3 December 2009

Education Session 2: Measurement of Cellular Oxidants

Webster Theatre

8.00am – 8.45am **ROLAND STOCKER**, Centre for Vascular Research, School of Medical Sciences (Pathology) and Bosch Institute, The University of Sydney, Australia

Session 11: Oxidative Stress and CVD 2 Chairs: T Mori & C Sobey

Webster Theatre Sponsored by ASCEPT

9.00am – 9.20am **MERLIN THOMAS**, Baker IDI Heart and Diabetes Institute, Melbourne, Australia
Advanced glycation and oxidative stress; double trouble in the diabetic vasculature

9.20am – 9.40am **ANTHONY KETTLE**, Research Group, Department of Pathology, University of Otago, Christchurch, New Zealand
Development of Inhibitors for myeloperoxidase

9.40am – 9.55am **KLAUDIA BUDZYN**, Department of Pharmacology, Monash University, Melbourne, Australia
Effects of disrupting the interaction between RANTES and CCR5 on angiotensin II-induced hypertension

9.55am – 10.10am **SOPHOCLES CHRISOBOLIS**, Department of Pharmacology, Monash University, Melbourne, Australia
Role of Nox1 and Nox2-containing NADPH oxidase and endothelial nitric oxide synthase in angiotensin II-induced cerebral endothelial dysfunction

10.10am – 10.25am **EMMA COLLINSON**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
Heme oxygenase-1 affords cellular antioxidant protection via the transcriptional regulation of known antioxidant genes

Session 12: Vitamin D Chairs: R Mason & T Piva

WP Young Rooms

9.00am – 9.20am **REBECCA MASON**, Department of Physiology and The Bosch Institute, The University of Sydney, Sydney, Australia
Photoprotection by 1 α ,25-dihydroxyvitamin D and analogs: further studies on mechanisms and implications for UV-damage

9.20am – 9.40am **MICHELLE GRIMBALDESTON**, Division of Human Immunology, Centre for Cancer Biology, Adelaide, Australia
Vitamin D₃ promotes mast cell-dependent reduction of chronic UVB-induced skin pathology in mice

9.40am – 9.55am **CLARE GORDON-THOMSON**, Department of Physiology and Bosch Institute, The University of Sydney, Sydney, Australia

1,25 Dihydroxyvitamin D₃ reduces UVB-induced DNA damage by suppressing the formation of reactive nitrogen species

- 9.55am – 10.10am **VANESSA SEQUEIRA**, Department of Physiology and Bosch Institute, The University of Sydney, Sydney, Australia
▶ *Photoprotective effects of 1 α ,25 (OH)₂D can be mediated via a VDR with a defective DNA binding domain*
- 10.10am – 10.25am **ROSLYN MALLEY**, Menzies Research Institute, University of Tasmania, Hobart, Australia
▶ *Dietary vitamin D₃ protects against UVB-induced immunosuppression in C57BL/6, but not BALB/c mice*

Morning Tea/Coffee
10.30am – 11.00am
Set up posters for Poster Session 2

Session 13: Proteomics of Protein Oxidation **Chairs: H Majima & S Cordwell**
Webster Theatre

- 11.00am – 11.20am **STUART CORDWELL**, School of Molecular and Microbial Biosciences, The University of Sydney, Sydney, Australia
Redox proteomics of myocardial proteins during ischemia/reperfusion injury
- 11.20am – 11.40am **NORIKO FUJIWARA**, Department of Biochemistry, Hyogo College of Medicine, Japan
Oxidative modification of Cys111 residue in human copper/zinc superoxide dismutase and its immuno-probe
- 11.40am – 11.55am **MARK RAFTERY**, Bioanalytical Mass Spectrometry Facility, University of New South Wales, Sydney, Australia
Post-translational modifications in S100A8
- 11.55am – 12.10pm **SUE YIN (ESTER) LIM**, Centre for Infection and Inflammation Research, University of New South Wales, Sydney, Australia
▶ *Functional regulation of S100A9 by S-glutathionylation in activated neutrophils*
- 12.10pm – 12.25pm **PAUL K. WITTING**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
Reagent or neutrophil-derived hypochlorous acid specific amino acid residues in myoglobin: a potential biomarker of myocardial inflammation

Session 14: Cancer Biology **Chairs: G Woods & K Dixon**
WP Young Rooms

- 11.00am – 11.15am **GREG WOODS**, Menzies Research Institute, University of Tasmania, Hobart, Australia
*Immunisation of Tasmanian devils (*Sarcophilus harrisii*) against Devil Facial Tumour Disease tumour cells*

- 11.15am – 11.30am **ZACLINA KOVACEVIC**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
▶ *The metastasis suppressor NDRG1 up-regulates p21 in a p53-independent manner in cancer cells: a novel insight into its anti-tumor function*
- 11.30am – 11.45am **CESAR TOVAR**, Menzies Research Institute, University of Tasmania, Hobart, Australia
▶ *Immunohistological evaluation of Devil Facial Tumour Disease and identification of a biomarker for disease diagnosis*
- 11.45am – 12.00pm **GUY LYONS**, Sydney Cancer Centre, Royal Prince Alfred Hospital and Discipline of Dermatology, The University of Sydney, Sydney, Australia
*Human papillomavirus 16 oncoprotein E6*I sensitises oropharyngeal squamous cell carcinoma cells to radiation-induced cell death*
- 12.00pm – 12.15pm **NAOMI DELIC**, Sydney Cancer Centre, Royal Prince Alfred Hospital and Discipline of Dermatology, The University of Sydney, Sydney, Australia
The epithelial-mesenchymal transition inducer, snail, inhibits terminal differentiation in squamous cell carcinomas
- 12.15pm – 12.30pm **PAUL SOU**, Discipline of Dermatology and Bosch Institute, The University of Sydney, Sydney, Australia
▶ *Cell-cell interactions in tumour progression*

Lunch Break 12.30pm – 1.30pm	SFRR(A) AGM 12.30pm – 1.30pm Webster Theatre
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Session 15:	Heme Proteins & Redox Reactions	Chairs: A Kettle & G Giles
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Webster Theatre

- 1.30pm – 1.50pm **LEANN TILLEY**, Department of Biochemistry, La Trobe University, Melbourne, Australia
Fluorescent sensors of oxidative stress in malaria parasite-infected erythrocytes
- 1.50pm – 2.10pm **HIROSHI MASUTANI**, Department of Biological Responses, Kyoto University, Kyoto, Japan
Thioredoxin regulates cell cycle via the ERK1/2-Cyclin D1 pathway
- 2.10pm – 2.25pm **GREG GILES**, Department of Pharmacology, University of Otago, New Zealand
Srrix cellular imaging of manganese metalloporphyrin based superoxide dismutase mimetics
- 2.25pm – 2.40pm **ANITA AYER**, Ramaciotti Centre for Gene Function Analysis School of Biotechnology and Biomolecular Sciences, University of New South Wales, Sydney, Australia
▶ *Glutathione homeostasis, iron homeostasis and mitochondrial function*

2.40pm – 2.55pm **ANDREW JENNER**, Department of Biochemistry, Yong Loo Lin School of Medicine, Singapore
The influence of high fat and heme in diet on the distribution of iron in rat colon

Session 16: CoQ₁₀ Symposium Chairs: Y Yamamoto & C Florkowski

WP Young Rooms Sponsored by the Japanese CoQ Association

1.30pm – 1.50pm **MAKOTO KAWAMUKAI**, Faculty of Life and Environmental Science, Shimane University, Matsue, Japan
Roles of coenzyme Q in electron transport, oxidative stress, and sulfide oxidation from yeasts to humans

1.50pm – 2.10pm **YORIHIO YAMAMOTO**, School of Bionics, Tokyo University of Technology, Hachioji, Tokyo, Japan
Saposin B and its precursor protein prosaposin play key role in absorption and transfer of CoQ₁₀

2.10pm – 2.30pm **CHRISTOPHER FLORKOWSKI**, Canterbury Health Laboratories and Christchurch Hospital, Christchurch, New Zealand
Coenzyme Q₁₀ and cardiovascular disease outcomes

2.30pm – 2.50pm **WALTER DUNLAP**, Centre for Marine Microbiology and Genetics, Australian Institute of Marine Science, Townsend, Australia
Coenzyme Q redox response of aquatic organisms to environmental stress and pollution

Afternoon Tea/Coffee

3.00pm – 3.30pm

Poster Session 2 – M – Z (by Surname) Posters

3.00pm – 5.00pm

WP Young Rooms, Foyers & Palfrey Room

Conference Dinner: Sponsored by Blackmores

6.45pm – 10.30pm

Le Montage Restaurant, 38 Frazer St, Lilyfield

Buses will transfer delegates from the conference centre to the restaurant from 6.15pm and return delegates to the centre after the dinner

Day 4 : Friday 4 December 2009

Education Session 3: Oxidative Lipid & Protein Damage

Webster Theatre

- 8.00am – 8.45am **CLARE HAWKINS**, The Heart Research Institute, Sydney, Australia
TREVOR MORI, School of Medicine & Pharmacology, University of Western Australia, Perth, Australia

Session 17: Oxidative Stress & Apoptosis

Chairs: C Winterbourn & A Lawen

Webster Theatre

- 9.00am – 9.30am **PLENARY LECTURE**
STEN ORRENIUS, Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden
Roles of calcium and reactive oxygen species in mitochondrial cell death regulation
- 9.30am – 9.50am **HIDEYUKI MAJIMA**, Department of Oncology and Department of Space Environmental Medicine, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan
Regulation of Nrf2/Keap1 signaling by mitochondrial generated reactive oxygen species
- 9.50am – 10.05am **MITCHELL LLOYD**, The Heart Research Institute, Sydney, Australia
Hypothiocyanous acid is a potent inducer of apoptosis in endothelial and macrophage cells
- 10.05am – 10.20am **AMANDA LANE**, The Heart Research Institute, Sydney, Australia
▶ *The myeloperoxidase-derived oxidant HOSCN inhibits protein tyrosine phosphatases and modulates cell signalling via the mitogen-activated protein kinase (MAPK) pathway in macrophages*
- 10.20am – 10.35am **HITESH PESHAVARIYA**, Bernard O'Brien Institute, University of Melbourne, Melbourne Australia
Transforming growth factor- β -induced Nox4 NADPH oxidase inhibits apoptosis in endothelial cells

Morning Tea/Coffee
10.35am – 11.00am

Session 18:	Oxidative Stress & Apoptosis	Chairs: J Keaney & E Snow
<i>Webster Theatre</i>	<i>Sponsored by MEPSA</i>	

- 11.00am – 11.30am **PLENARY LECTURE**
IRENE KOCHEVAR, Wellman Center for Photomedicine, Massachusetts General Hospital, Harvard Medical School, Boston, U.S.A.
Influence of tissue environment on singlet oxygen-initiated toxicity
- 11.30am – 11.50am **TAKA AKAIKE**, Department of Microbiology, Kumamoto University, Kumamoto, Japan
New NO signaling via 8-nitro-cyclic GMP formation and protein S-guanylation
- 11.50am – 12.10pm **TAKAHIRO SHIBATA**, Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
A monoclonal antibody against 4-ketoamide-type 4-oxo-2-nonenal-lysine adduct
- 12.10pm – 12.25pm **RACHEL DUNLOP**, The Heart Research Institute, Sydney, Australia
Oxidised proteins induce apoptosis via a mechanism involving lysosomal membrane permeabilisation

Lunch Break 12.30pm – 1.30pm	SFRR(A+J) Executive Meeting 12.30pm – 1.30pm Webster Theatre
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Remove Posters

Session 19:	Oxidative Stress & Apoptosis	Chairs: Y Naito & S Gieseg
<i>Webster Theatre</i>		

- 1.30pm – 1.50pm **MARGREET VISSERS**, Pathology Department, University of Otago, Christchurch, New Zealand
Inhibition of apoptosis and caspase 3 activation in endothelial cells by hypothiocyanous acid
- 1.50pm – 2.10pm **YUJI NAITO**, Molecular Gastroenterology and Hepatology, Kyoto Prefectural University of Medicine, Kyoto, Japan
Heme oxygenase-1: a new therapeutic target for inflammatory bowel disease
- 2.10pm – 2.25pm **JULIA RAFTOS**, Department of Biological Sciences, Macquarie University, Sydney, Australia
A mathematical model of glutathione synthesis and turnover in the human erythrocyte
- 2.25pm – 2.40pm **GHASSAN MAGHZAL**, Department of Pathology and Bosch Institute, The University of Sydney, Sydney, Australia
Phagocyte indoleamine 2,3-dioxygenase activity is independent of NADPH oxidase-derived superoxide anion radical

- 2.40pm – 2.55pm **JING ZHAO**, Centre for Infection and Inflammation Research, School of Medical Sciences, University of New South Wales, Sydney, Australia
Inhibition of mast cell activation by S100A8
- 2.55pm – 3.10pm **GARRY GRAHAM**, Department of Clinical Pharmacology, St Vincent's Hospital, Sydney, Australia
Paracetamol inhibits the formation of oxidants by myeloperoxidase and may limit extracellular matrix damage in atherosclerotic lesions
- 3.10pm – 3.20pm **CLOSING REMARKS**
ROLAND STOCKER
Int J Biochem Mol Biol Prize Presentation

► Indicates Eligible for Student Prize