

# Program

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Saturday 29 August 2009

11.00am to 7.00pm	<b>Registration</b>	<b>Lobby</b>
12.00pm to 1.00pm	<b>Lunch</b>	<b>Lobby and Terrace</b>
1.00pm to 2.15pm	<b>Global Burden of Preventable Disease</b>	<b>Outer Reef Room</b>
1	13.00	The global epidemic of diabetes Jonathan Shaw
2	13.25	Diabetes care in Indigenous Australians Ashim Sinha
3	13.50	The diet and food preparation methods of Australian Aborigines as hunter gatherers Kerin O'Dea
2.30pm to 4.00pm	<b>Anti-Glycation Interventions and Targets</b>	<b>Outer Reef Room</b>
4	14.30	Screening of AGE inhibitors by antibody libraries Ryoji Nagai
5	15.00	The AGE lowering agent alagebrium (ALT-711) is a low- affinity inhibitor of thiamine diphosphokinase Gerald Muench
6	15.30	Chlorogenic acid inhibits alpha-dicarbonyl glycation and peroxidation of human low density lipoprotein Alejandro Gugliucci
7	15.45	Trolox and quercetin pre-treatment attenuates AGE-induced markers of oxidative stress and pro-inflammation in cultured human endothelial cells Permal Deo
2.30pm to 4.00pm	<b>AGEs in the Eye</b>	<b>Inner Reef Room</b>
8	14.30	Advanced glycation endproducts as biomarkers for AGE- related macular degeneration John Crabb
9	15.00	Diabetes-induced retinal neuroglial dysfunction is linked to methylglyoxal-derived advanced glycation endproducts Alan Stitt
10	15.30	Receptor for advanced glycation end-products (RAGE) signaling in retinal microglia is linked to pro-inflammatory pathology in diabetic retinopathy Hongliang Zong
11	15.45	Metal catalyzed oxidation of human lens proteins: Effects of age, diabetes and oxygen Xingjun Fan
4.00pm to 4.30pm	<b>Afternoon Tea</b>	<b>Lobby and Terrace</b>
4.30pm to 6.00pm	<b>AGEs and Kidney Function</b>	<b>Outer Reef Room</b>
12	16.30	Glycated proteins bind to ERM proteins and modulate their actions Leon Bach
13	17.00	Emerging role of thiamine therapy for prevention and treatment of early-stage diabetic nephropathy Naila Rabbani
14	17.30	Differential modification of collagen IV by glucose and methylglyoxal alters distinct glomerular cell functions Paul Voziyan
15	17.45	Relationship of circulating markers of glycation, oxidation and nitration to renal function in type 2 diabetes George Jerums
4.30pm to 6.00pm	<b>Food Science: The Maillard Reaction in Food 1</b>	<b>Inner Reef Room</b>
16	16.30	Dietary advanced glycation/lipoxidation endproducts: Implications for human health and disease Jenny Ames
17	17.00	Melanoidins as functional dietary fibre Vincenzo Fogliano
18	17.30	Highlights Winner: Ne-(carboxymethyl) lysine content of ready-meals and desserts Chou Srey
19	17.45	Dietary exposure to 5-hydroxymethylfurfural from Norwegian food and correlations with urine metabolites of short-term exposure Michael Murkovic

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6.00pm to 7.00pm	Poster Session (with drinks)	Lobby and Terrace
20	Methylglyoxal augments intracellular oxidative stress in aortic endothelial cell	Michiaki Abe
21	Proteolytic debris of glycated proteins in patients with early and advanced rheumatoid arthritis	Usman Ahmed
22	Formation of Ne-(carboxymethyl)lysine and loss of lysine and cml in casein sugar/ lipid model systems	Jenny Ames
23	Selective inhibition of Ne-(carboxymethyl)lysine and fluorescent AGEs by ferulic acid	Jenny Ames
24	Antidiabetic and antioxidant role of aloe vera (L) extract in streptozotocin induced diabetic male albino rats	Shiva Basavaiah
25	Fructosamine-3-Kinase (FN3K) enzyme activity does not correlate with FN3K mRNA in human skin fibroblasts (SF) from diabetic subjects	Paul Beisswenger
26	Combination of trigonella foenum graecum and curcuma longa treatment to prevent histopathological abnormalities in liver tissue of alloxan induced type-I diabetes male albino rats	Matcha Bhaskar
27	Hyperglycaemia-induced impaired endothelium-dependent vasorelaxation is mediated by intracellular methylglyoxal levels in an oxidative stress-dependent pathway	Olaf Brouwers
28	Application of the quencher approach concept to the ORACFL assay	Vincenzo Fogliano
29	N-(carboxymethyl)lysine trapping in adipose tissue: Implications for obesity-associated changes in adipocytokine expression	Katrien Gaens
30	Protein glycation of HDL2 and HDL3 of healthy human subjects	Lisa Godfrey
31	Circulating advanced glycation peptides are higher in neonates than in adults: Role of kidney metabolism	Alejandro Gugliucci
32	Possible role of amine carbonyl reactions in melamine-induced renal injury	Qi Guo
33	Growth arrest specific gene 6 plays a role in ageing kidney through advanced glycation endproducts	Noriyuki lehara
34	ACE inhibition abolishes plaque formation in rage deficient diabetic ApoE knockout mice	Karin Jandeleit-Dahm
35	Treatment with an ACE inhibitor improves kidney structure and function in rage deficient diabetic ApoE knockout mice	Karin Jandeleit-Dahm
36	Does benfotiamine alter microalbuminuria and hyperfiltration in patients with type 2-diabetes?	George Jerums
37	Genistein suppresses AGE-BSA induced RAGE expression through a PI3K-NF-kB dependent pathway in mouse mesangial cells	Dong Ho Jung
38	Role of urinary carbonyl substance in the prediction of chronic kidney disease in obese young adults	Akihiro Kawamata
39	Physicochemical properties and antioxidant activities of MRPs	Yoonsook Kim
40	Different molecular events by advanced glycation end products in a co-culture system of endothelial cells and monocytes	Kwang-Won Lee
41	Acrolein induced the expression of heme oxygenase 1 as an adaptive response in RAW 264.7 macrophage	Seung Eun

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6.00pm to 7.00pm	Poster Session (with drinks)	Lobby and Terrace
42	Studies on atherosclerosis related gene expression profiles by treatment of acrolein in human umbilical vein endothelial cells	Sun Hee Lee
43	Mitochondrial dysfunction is associated with the pathogenesis of experimental diabetic cardiomyopathy	Ben Ma
44	AGE-induced breakdown of ezrin: Production of a dominant-negative form of ezrin?	Anne McRobert
45	Effect of modification with reactive aldehydes on the structure and function of human serum albumin	Katsumi Mera
46	Candesartan attenuates vascular injury in diabetic retinopathy by restoring glyoxalase-I function	Antonia Miller
47	Favored and disfavored pathways of the Maillard reaction in vitro and in vivo	Vincent Monnier
48	Antitumor glycoaminoconjugates based on the amadori rearrangement products	Valeri Mossine
49	Glycated collagen decreases the contraction of matrix by human dermal fibroblast	Mime Nagai
50	Identification of heat-shock protein 27 (Hsp27) as methylglyoxal target in gastrointestinal tumor	Tomoko Oya-Ito
51	The pathogenic potential of high molecular weight proteins present in diabetic serum	Sally Penfold
52	Improved extraction method of acrylamide from meat products	Margaret Plotkowiak
53	Effect of irbesartan on glycation in plasma and urine of type 2 diabetic patients with microalbuminuria	Naila Rabbani
54	Glycation of nucleotides in vivo	Naila Rabbani
55	Protein glycation, oxidation and nitration damage of the renal mitochondrial matrix in experimental diabetes	Naila Rabbani
56	Methylglyoxal induces adaptive response via up-regulation of heme oxygenase-1 in endothelial cells	Dong Sun Ryu
57	Association of biochemical parameters and RAGE gene polymorphism in healthy infants and their mothers	Katka Sebekova
58	Inhibition of NADPH-producing enzymes by methylglyoxal in vitro	Pam Sheahan
59	Skin autofluorescence as marker of tissue AGE accumulation is an independent predictor of cardiovascular mortality: Long-term follow-up in diabetes and renal allograft recipients	Andries Smit
60	The renal renin-angiotensin system (RAS) is modulated by RAGE which synergistically contribute to the development of diabetic nephropathy	Karly Sourris
61	Excretion of toxic and non-toxic carbonyls with urine as a urea derivatives	Kyozo Suyama
62	Isolation of glucose ureide, urea derivative of glucose, in urine	Kyozo Suyama
63	Dicarbonyls in cola drinks sweetened with sucrose or high fructose	Paul Thornalley
64	Protein glycation, oxidation and nitration damage during fibroblast senescence	Paul Thornalley

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6.00pm to 7.00pm	Poster Session (with drinks)	Lobby and Terrace
65	Glyceraldehyde-derived advanced glycation end product decreases white adipose tissue weight and downregulates leptin and adiponectin	Hirohito Watanabe
66	Advanced glycation endproducts (AGEs) are associated with poorer cognition function - A population based study	Bernie Westcott
67	Therapeutic anti-inflammatory interventions along AGE-RAGE pathway	Parisa Younessi

# Program

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Sunday 30 August 2009

7.30am to 1.00pm	Registration	Lobby
7.30am to 8.30am	Arrival Tea and Coffee	Lobby and Terrace
8.30am to 9.00am	Plenary Lecturer (Ann Marie Schmidt)	Outer Reef Room
68	8.30 RAGE: A target for therapy in diabetes and the inflammatory response	Ann Marie Schmidt
9.00am to 10.30am	The AGE/RAGE Axis	Outer Reef Room
69	9.00 The AGE-RAGE-Axis: Causer of diabetic vascular lesions or innocent bystander	Erwin Schleicher
70	9.30 Genetic deficiency of RAGE protects against AB-mediated synaptic and cognitive deficits and reduces AB accumulation in a transgenic mouse model of Alzheimer's disease	Shirley ShiDu Yan
71	10.00 Highlights Winner: Advanced glycation end-products (AGEs) / receptor for AGEs (RAGE) axis as a scaffold for cardiovascular diseases and metabolic syndrome	Takuhito Shoji
72	10.15 The role of RAGE in diabetic atherosclerosis	Karin Jandeleit-Dahm
9.00am to 10.30am	The Maillard Reaction in Food 2	Inner Reef Room
73	9.00 Analysis of Ne-carboxymethyllysine in selected foods and biologic samples	Frederic Tessier
74	9.30 Reactive oxygen species and the Maillard reaction in food	Monika Pischetsrieder
75	10.00 Taste modulating Maillard reaction products of creatine/creatinine	Christof Kunert
10.30am to 11.00am	Morning Tea	Lobby and Terrace
11.00am to 12.30pm	AGE analysis in Health and Disease	Outer Reef Room
76	11.00 Comprehensive and comparative analysis of advanced glycation endproducts in human lens crystallins and skin collagen in aging and diabetes	Vincent Monnier
77	11.30 The analysis of AGEs and ALEs by mass spectrometry: What does the future hold?	Tom Metz
78	12.00 Does skin fluorescence correlate with advanced glycation and oxidation products?	Paul Beisswenger
79	12.15 Simultaneous analysis of AGEs in cytosolic proteins, genomic DNA and mitochondrial DNA in a cellular model for aging	Viola Breyer
11.00am to 12.30pm	Dietary AGEs in Disease	Inner Reef Room
80	11.00 Formation of mutagens/carcinogens under physiological conditions and the inhibitory effects of daily foods on the formation and the induction of genotoxicity	Naohide Kinae
81	11.30 High versus low AGE diet in early childhood: Does it matter?	Katka Sebekova
82	12.00 Excess dietary AGE or protein consumption leads to renal damage through activation of the complement pathway	Melinda Coughlan
83	12.15 Glycation and oxidative damage in developing embryos of high fat diet-fed mice	Paul Thornalley
12.30pm to 1.00pm	Lunch - boxed lunches will be available	Lobby and Terrace
1.00pm to 5.15pm	Optional Tour: Kuranda/Skyrail	
7.00pm to 11.00pm	Symposium Dinner	Terrace

# Program

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Monday 31 August 2009

7.30am to 7.00pm	Registration	Lobby
7.30am to 8.30am	Arrival Tea and Coffee	Lobby and Terrace
8.30am to 9.00am	Plenary Lecturer (Michael Davies)	Outer Reef Room
84	8.30	Role of glycation and glycooxidation reactions in diabetes-associated atherosclerosis Michael Davies
9.00am to 10.30am	Diacarbonyls and Glyoxalase in Health and Disease	Outer Reef Room
85	9.00	Role of carbonyl stress on pathogenesis of chronic kidney disease Takefumi Mori
86	9.30	A novel concept of mental illness: Carbonyl stress induced schizophrenia-a glyoxalase I deficit pedigree with psychosis Masanari Itokawa
87	10.00	Glyoxalase-I overexpression reduces glyoxal, methylglyoxal, advanced glycation end products and markers of oxidative stress in diabetic rats Olaf Brouwers
88	10.15	Glyoxalase1 (GLO1) attenuates the impact of renal aging Yoichiro Ikeda
9.00am to 10.30am	Novel products of the Maillard Reaction	Inner Reef Room
89	9.00	The carbohydrate moiety as modifier of yields and formation pathways of key odorants generated in the presence of cysteine Michael Granvogl
90	9.30	Fructosamines as a rich source of rare carbohydrate structures Valeri Mossine
91	10.00	Mass spectrometric analysis of carboxymethylated and carboxyethylated phosphatidylethanolamines in diabetic blood Naoki Shoji
92	10.15	Partial characterization of the molecular nature of collagen-linked fluorescence: Role of diabetes and end-stage renal disease David Sell
10.30am to 11.00am	Morning Tea	Lobby and Terrace
11.00am to 12.30pm	AGEs and Adiposity	Outer Reef Room
93	11.00	Plasma Ne-(carboxymethyl)lysine levels are inversely associated with markers of inflammation in obese patients and partly explain the association between obesity and inflammation Katrien Gaens
94	11.30	Paracrine effects of adipose derived estrone secretion on renal RAGE expression Brooke Harcourt
95	11.45	Succination of adiponectin and adipose tissue proteins in diabetes Norma Frizzell
96	12.00	Regular moderate exercise reduces advanced glycation and renal injury in obese zucker rats Katka Sebekova
11.00am to 12.30pm	Hot topics in Biomedical Science	Inner Reef Room
97	11.00	Interplays among hypoxia, oxidative stress, and advanced glycation? Toshio Miyata
98	11.30	Methylglyoxal modification of small heat shock proteins: Effect on chaperone and anti-apoptotic functions Ram Nagaraj
99	12.00	Reduction of carboxymethyllysine in HEK-293 cells by repeated mild heat shock Sebastian Foth
100	12.15	Hotspot sites of HDL glycation by methylglyoxal and the effects on hepatic catabolism Lisa Godfrey
12.30pm to 2.00pm	IMARS Business Lunch (open to all attendees)	Outer Reef Room

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Monday 31 August 2009

2.00pm to 2.30pm	<b>Plenary Lecturer (George Muscat)</b>	<b>Outer Reef Room</b>
101 14.00	Understanding retinoic acid receptor-related orphan receptor alpha (ROR) function in metabolism: Insights into obesity and glucose homeostasis	George Muscat
2.30pm to 4.00pm	<b>The Maillard Reaction in Food 3</b>	<b>Outer Reef Room</b>
102 14.30	Chemistry of pigments as intermediate of melanoidins	Fumitaka Hayase
103 15.00	Wheat bran reduces Ne (carboxymethyl)lysine CML formation in biscuits	Jenny Ames
104 15.15	Novel maillard pigments formed from xylose and lysine under weakly acidic conditions	Masatsune Murata
105 15.30	Effect of Maillard reaction conditions on browning and antioxidative capacity of sugar and a surimi wash water model system	Chakree Thongraung
106 15.45	Formation of hydroxymethyl-furfural and hydroxymethyl-furoic acid in foods	Michael Murkovic
2.30pm to 4.00pm	<b>RAGE and Disease</b>	<b>Inner Reef Room</b>
107 14.30	Glycation and the antistress gene response	Paul Thornalley
108 15.00	RAGE provides a link between genetic susceptibility and environmental factors in type 1 diabetes	Josephine Forbes
109 15.30	Soluble RAGE is a novel independent predictor of all-cause and cardiovascular mortality in Finnish adults with type 1 diabetes	Jenny Söderlund
110 15.45	Plant hairy root cultures as a production system for functional soluble RAGE	Diane Webster
4.00pm to 4.30pm	<b>Afternoon Tea</b>	<b>Lobby and Terrace</b>
4.30pm to 6.00pm	<b>New Directions for the Maillard Reaction (Health)</b>	<b>Outer Reef Room</b>
111 16.30	Understanding the phenomena of hyperglycemic memory mediated by epigenetic changes	Sam El-Osta
112 17.00	The effect of advanced glycation endproducts on the brain – How much is known?	Velandai Srikanth
113 17.30	Reconstruction of skin in the presence of glycated collagen as a model of skin aging: Biological and biochemical effects of antiglycation molecules	Daniel Asselineau
6.00pm to 7.00pm	<b>Farewell Drinks</b>	<b>Lobby and Terrace</b>