

Title of conference: 14th IMARS conference (IMARS-14)
Doha 2021 - Protein glycation in food, health and disease.

Date: 20th – 24th September 2021



CONFERENCE AGENDA

20th September 2021. Day 1.

Time	Speaker name	Speaker topic
OPENING CEREMONY		
16-00	Reading from the Qur'an	
16-05	Welcome and opening remarks by President of IMARS, Prof Paul J Thornalley (QBRI/HBKU) and Chair IMARS-14 Organizing Committee, Prof Naila Rabbani (Qatar University)	
16-20	Welcome by Representative from Qatar National Research Fund (QNRF)	
16-30	Doha Glycation Declaration 2021- Grand challenges in glycation research Invitation for input	
Session 1	Breakthrough research: Unfolded protein response	
16-45	Keynote Speaker: Prof Kazutoshi Mori, Lasker laureate (Kyoto University, Japan)	Unfolded protein response: dawn of a new field
Session 2	Diabetes and diabetic complications	
17-30	Prof Abdul-Badi Abou-Samra (Metabolic Research Institute, Hamad Medical Corp, Qatar)	Qatar Diabetes Prevention Program (QDPP) – use of A1C in diabetes prevention and control
18-00	Prof Mark Cooper (Monash University, Australia)	Glycation and diabetic kidney disease
18-30	Prof Rayaz Malik (Weill-Cornell Medical College, Qatar)	Glycation and diabetic neuropathy
19-00	Prof Ann Marie Schmidt (New York University, USA)	Receptor for advanced glycation endproducts (RAGE) in diabetic vascular disease
19-30	Prof Melinda Coughlan (Monash University, Australia)	Dietary factors in the initiation of diabetes and its complications
20-00	Day 1 - Close	

CONFERENCE AGENDA

21st September 2021. Day 2.



Time	Speaker name	Speaker topic
Session 3	Glycation in food: innovation for a healthy diet	
16-00	Prof Vincenzo Fogliano (University of Wageningen, The Netherlands)	Glycation and development of healthier foods
16-30	Prof Thomas Henle (Technical University of Dresden, Germany)	Dietary exposure to glycation adducts in food, including health benefits of Manuka honey
17-00	Prof Fred Tessier (University of Lille, France)	Metabolic transit of glycation adducts in food and physiological effects
17-30	Speaker to be decided	Short talk 1
17-40	Speaker to be decided	Short talk 2
17-50	Speaker to be decided	Short talk 3
Session 4	Dicarbonyl stress in obesity and diabetes (session with EASD Reactive Metabolites Study Group)	



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18-00	Prof Casper G. Schalkwijk (Maastricht University, The Netherlands)	Dicarbonyl stress in obesity and risk of type 2 diabetes
18-30	Prof Jacob Haus (University of Michigan, USA)	Dicarbonyl stress in insulin resistance and effect of exercise intervention
19-00	Prof Bernd Stratmann (Ruhr-University Bochum, Germany)	Dicarbonyl stress in diabetic vascular disease
19-30	Speaker to be decided	Short talk 4
19-40	Speaker to be decided	Short talk 5
19-50	Speaker to be decided	Short talk 6
20-00		Day 2 - Close

CONFERENCE AGENDA



22nd September 2021. Day 3.

Time	Speaker name	Speaker topic
Session 5		
Glycation in through the life course – from maternal bonding kidney disease and aging		
16-00	Prof Yasuhiko Yamamoto (Kanazawa University, Japan)	RAGE and maternal bonding – an unexpected mechanistic relationship
16-30	Prof Vincent Monnier (Case Western Reserve University, USA)	Glycation in the aging lens
17-00	Prof Allen Taylor (Tufts University, USA)	Glycation and age-related macular degeneration
17-30	Speaker to be decided	Short talk 7
17-40	Speaker to be decided	Short talk 8
17-50	Speaker to be decided	Short talk 9
Session 6		
Glycation in plants – physiology, function and food security. Glycation and the response to COVID-19		
Glycation in plants – physiology, function and food security		
18-00	Prof Chikahiro Miyake (Kobe University, Japan)	Formation of methylglyoxal in plants – “plant diabetes”
18-30	Prof Andrej Frolov (St. Petersburg State University, Russia)	Proteomics of glycation in plants
19-00	Prof Sneh L. Singla-Pareek (International Centre for Genetic Engineering and Biotechnology, India)	Overexpression of glyoxalases in plants – opportunities for development of environmental stress-resistant crops
19-30	Speaker to be decided	Short talk 10
Glycation and the response to COVID-19		
19-40	Speaker to be decided	Short talk 11
19-50	Speaker to be decided	Short talk 12
20-00	Day 3 - Close	



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23rd September 2021. Day 4.

Time	Speaker name	Speaker topic
Session 7	Glycation analytics and chemistry	
16-00	Prof Monika Pischetsrieder (University of Erlangen-Nuremberg, Germany)	Detection of dicarbonyl intermediates of glycation
16-30	Prof Ryoji Nagai (Tokai University, Japan)	Measurement of AGEs: LC-MS/MS, immunoassay and finger skin autofluorescence
17-00	Prof Varoujan Yaylayan (McGill University, Canada)	Advances in understanding of the chemical mechanisms of glycation
17-30	Speaker to be decided	Short talk 13
17-40	Speaker to be decided	Short talk 14
17-50	Speaker to be decided	Short talk 15
Session 8	Glycation in kidney disease, cancer and mental health	
18-00	Prof Reiko Inagi (University of Tokyo, Japan)	Glycation in renal failure. Current state of minimizing glucose degradation products.
18-30	Prof Matthew Vander Heiden (MIT, USA)	Methylglyoxal metabolism is a targetable liability of glycolytic metabolism in cancer
19-00	Prof Makoto Arai (University of Tokyo, Japan)	Glycation and mental health - anxiety, depression and schizophrenia
19-30	Speaker to be decided	Short talk 16
19-40	Speaker to be decided	Short talk 17
19-50	Speaker to be decided	Short talk 18
20-00		Day 4 - Close

CONFERENCE AGENDA



24th September 2021. Day 5.

Time	Speaker name	Speaker topic
Session 9		
Imaging, diagnostic algorithms and therapeutics		
16-00	Prof Chunyong Ding (Shanghai Jiaotong University, China, tbc)	Imaging of methylglyoxal <i>in vivo</i> in experimental models of cancer and Alzheimer's disease
16-30	Prof Naila Rabbani (Qatar University, Qatar)	Glycation and machine learning – diagnostic algorithms for diabetes, arthritis and autism
17-00	Prof Paul J Thornalley (QBRI/HBKU, Qatar)	Glycation based therapeutics: Glo1 inducers and Glo1 inhibitors. COVID-19 repurposing
Session 10		
Methods and models in glycation research – Qatar glycation collaboration		
17-30	Dr Sowndramalingam Sankaralingam (Qatar University, Qatar)	Measurement of glyoxalase activities
17-45	Maryam Al-Motawa (QBRI/HBKU, Qatar)	Glo1 CNV and SNPs
18-00	Prof Paul J Thornalley (QBRI/HBKU, Qatar)	Assay of glyoxalase metabolites: methylglyoxal, S-D-lactoylglutathione and D-lactate
18-15	Dr Patrick Wijten (QBRI/HBKU, Qatar)	Quantitation of glycation adducts by stable isotopic dilution analysis LC-MS/MS
18-30	Prof Naila Rabbani (Qatar University, Qatar)	Proteomics of glycation
18-45	Dr Mingzhan Xue (QBRI/HBKU, Qatar)	Functional genomic studies of dicarbonyl stress
19-00	Dr Alberto da la Fuente (QBRI/HBKU, Qatar)	Mathematical modelling of glycation
19-15	Dr Hebah Al Khatib (Qatar University, Qatar)	Glycation in drug repurposing for COVID-19
19-30	Dr Essam Abdelalim (QBRI/HBKU, Qatar)	iPSC application in diabetes and glycation research
FINALE AND CLOSE		
19-45	Prof Paul J Thornalley (IMARS President)	<ul style="list-style-type: none"> Grand challenges in glycation research – Doha Glycation Declaration 2021 IMARS Society – change of President
20-00	Day 5 - Conference Close	