

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	Welcome and opening by V.VIP distinguished guests	
16-05	Doha Glycation Declaration 2021- Grand challenges in glycation research Invitation for input	
Session 1 Breakthrough research: COVID-19 response and Unfolded protein response		
16-10	Keynote Speaker: Prof Atta-ur-Rahman FRS <i>(University of Karachi, Pakistan & Chair, Pakistan PM's COVID-19 task force and Former Chair, Higher Education Commission)</i>	Responding to the COVID-19 pandemic and how glycation research may help
16-50	Keynote Speaker: Prof Kazutoshi Mori, Lasker laureate <i>(Kyoto University, Japan)</i>	Unfolded protein response: dawn of a new field
Session 2 Diabetes and diabetic complications		
17-30	Prof Abdul-Badi Abou-Samra <i>(Metabolic Research Institute, Hamad Medical Corp, Qatar)</i>	Qatar Diabetes Prevention Program (QDPP) – use of A1C in diabetes prevention and control
18-00	Prof Mark Cooper <i>(Monash University, Australia)</i>	Glycation and diabetic kidney disease
18-30	Prof Rayaz Malik <i>(Weill-Cornell Medical College, Qatar)</i>	Glycation and diabetic neuropathy
19-00	Prof Ann Marie Schmidt <i>(New York University, USA)</i>	Receptor for advanced glycation endproducts (RAGE) in diabetic vascular disease
19-30	Prof Melinda Coughlan <i>(Monash University, Australia)</i>	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 (with EASD Reactive Metabolites Study Group)		
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 (<i>Kanazawa University, Japan</i>)	RAGE and maternal bonding – an unexpected mechanistic relationship
16-30	Prof Vincent Monnier (<i>Case Western Reserve University, USA</i>)	Glycation in the aging lens
17-00	Prof Allen Taylor (<i>Tufts University, USA</i>)	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	
18-00	Prof Chikahiro Miyake (<i>Kobe University, Japan</i>)	Formation of methylglyoxal in plants – “plant diabetes”
18-30	Prof Andrej Frolov (<i>St. Petersburg State University, Russia</i>)	Proteomics of glycation in plants
19-00	Prof Sneh L. Singla-Pareek (<i>International Centre for Genetic Engineering and Biotechnology, India</i>)	Overexpression of glyoxalases in plants – opportunities for development of environmental stress-resistant crops
19-30	Speaker to be decided	Short talk 10
19-40	Speaker to be decided	Short talk 11
19-50	Speaker to be decided	Short talk 12
20-00	Day 3 - Close	



CONFERENCE AGENDA

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)	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, QBRI/HBKU, Qatar)	<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	