3rd World Congress on
Maillard Reaction & Glycation
Health & Diseases – Agro-Food Industries

May 26-27, 2016
Academy of Sciences, Budapest, Hungary

Scientific Agenda
Dear Colleagues,

On behalf of the International Society of Antioxidants in Nutrition and Health (ISANH), it is a pleasure to welcome you for the 3rd World Congress on Maillard Reaction which will be held at Academy of Sciences, Budapest, Hungary on May 26-27, 2016.

The Maillard Reaction Congress will be divided in two parts:

- Part 1 will be dedicated to Maillard Reaction & Glycation in Health & Diseases and will highlight the following topics:
  - Recent Scientific Advances & Directions
  - Maillard Reaction in Pathologies & Diseases
  - Ageing, Redox Process & Ageing-related pathologies
  - Strategies & Innovations
- Part 2 will be dedicated to Maillard Reaction & Glycation in Agro-Food Industry and will highlight the following topics:
  - Recent Scientific Advances & Directions
  - Maillard Reaction & Acrylamid
  - Impact on taste and organoleptic aspects
  - Strategies & Innovations in Agro-Food Industry

To conclude this congress, a general discussion will be held between speakers, scientists and industry sector about Maillard Reaction, Glycation and what about tomorrow. We will discuss about where we are now in the glycation science and what kind of strategies we need urgently to target clinical diseases related to glycation.

The other point is how we can clarify the situation with the agro-food industry mainly in term of how to decrease the intake of the glycated products in food.

We look forward welcoming you during Maillard Reaction congress.

Pr Ladislas Robert - President of Maillard Reaction 2016
Pr Marvin Edeas - Chairman of the Scientific Committee
3rd World Congress on
Maillard Reaction & Glycation
May 26-27, 2016
Academy of Sciences, Budapest, Hungary

Day 1: May 26, 2016

Maillard Reaction & Glycation in Health & Diseases

7h30 Opening of Registration – Welcoming of attendees
8h55 Introduction Remarks by Chairpersons
   Prof. Ladislas Robert & Prof. Marvin Edeas

With the participation of the honorary committee:
Prof. Gyorgy Kosztolanyi, President of the Medical Section of the Hungarian Academy of Sciences, Budapest, Hungary
Prof. Tamas Freund, Vice President of Hungarian Academy of Sciences, Budapest, Hungary
Prof. Anna Kadar, Medical University Semmelweis, Budapest, Hungary
Prof. Karoly Kocsis, President of the council of external members of the Hungarian Academy of Sciences
Prof. Sylvester Vizy, Past President of Hungarian Academy of Sciences, Budapest, Hungary

9h30 Science in Hungary & Hungary in Science
István Hargittai, Budapest University of Technology and Economics, Budapest, Hungary

Session 1: Recent Scientific Advances & Directions

10h00 Introductory Lecture: The History of Redox Biology, from "Reduktone" of Hans von Euler to Free Radicals, exemplified by the Maillard Reaction and Atherogenesis: A Review
Ladislas Robert & Jacqueline Labat-Robert, Hôtel Dieu, Paris, France

10h45 Coffee Break & Posters Session

11h15 Oxidative Stress, Glycation & Redox 2016: Questions, controversies & perspectives in Health and Diseases
Marvin Edeas, Chairman of ISANH, Paris, France

11h45 Extracellular matrix glycation, redox status and cross-linking
Sylvie Ricard-Blum, Université Lyon 1, Lyon France

12h15 Poly(ADP-ribose) signalise in oxidative stress
Laszlo Virag, University of Debrecen, Debrecen, Hungary

12h45 Lunch Break & Posters Session

14h00 Concepts and misconcepts regarding the nature of oxygen free-radicals in the living systems
Imer Zs Nagy, University of Debrecen, Debrecen, Hungary
Session 2: Maillard Reaction in Pathologies & Diseases

14h30  AGE-RAGE interaction in fibrosis of the eye  
Ram Nagaraj, University of Colorado School of Medicine, Colorado, USA

15h00  Microbiota & Maillard Reaction: Metabolization of Maillard reaction products by the human colonic microbiota  
Michael Hellwig, Technische Universität, Dresden, Germany

15h30 Coffee Break & Posters Session

16h00  AGE-RAGE axis: implication in fibrosis and aging  
Eric Boulanger, INSERM-Lille2, Lille, France

16h30  Effect of AGE intake on inflammation and ageing: state of sciences and perspectives  
Ivan Bautmans, Vrije Universiteit, Brussels, Belgium

17h00  Supra-additive impact of mitochondrial dysfunction and subsequent oxidative stress in central nervous system pathology  
Beata Sperlagh, Hungarian Academy of Sciences, Hungary

17h30  Short oral presentations upon abstracts submission

Among the presentations selected:

- Glycated Human Albumin Triggers Mitochondrial Metabolism of Preadipocyte Cells  
Philippe Rondeau, UMR Diabète Athérothrombose Thérapies Réunion Océan Indien (DéTROI), France

- Glycation Abolishes The Cardioprotective Effects of Albumin during Ischemia-Reperfusion  
Faadiel Essop, Stellenbosch University, South Africa

- Prevention of glycosylation by natural and synthetic antioxidants  
Izabela Sadowska-Bartosz, University of Rzeszów, Poland

- A rapid evaluation of glycated apoA-I and high-density lipoproteins to cause pro-oxidative and inflammatory death in zebrafish embryo  
Kyung-Hyun Cho, Yeungnam Univ, Korea

18h30  End of First Day

20h00  Speakers Dinner  
To participate to this dinner, please register online.
Day 2: May 27, 2016

8h55 Introduction of the second day

9h00 Diet-induced accumulation of AGEs contribute to metabolic diseases onset by interfering with SREBP-1c activity
   Raffaella Mastrocola, University of Turin, Turin, Italy

9h30 The role of hemoglobin derived heme in the pathogenesis of vascular disorders
   György Balla, University of Debrecen, Debrecen, Hungary

10h00 Exercise and brain function: is it redox regulated?
   Zsolt Radak, University of Physical Education, Budapest, Hungary

10h30 Coffee Break & Posters Session

Session 3: How to Evaluate Glycation & Glycated-End Products in Health & Diseases?

11h00 Detection of AGEs as markers for carbohydrate metabolism and protein denaturation
   Ryogi Nagai, Tokai University, Kumamoto, Japan

11h30 Glycation of lens proteins in diabetes & its non-invasive assessment
   Jan Skrha, Charles University, Prague, Czech Republic

12h00 Skin collagen fluorescence as marker of diabetic retinopathy intensity: recent advances and perspectives
   Michel Sternberg, Université René Descartes, Paris, France

12h30 Lunch Break & Posters Session

Session 4: AGEs & RAGEs: Strategies & Innovations

14h00 Delayed intervention with pyridoxamine improves metabolic function and prevents adipose tissue inflammation and insulin resistance
   Casper G. Schalkwijk, Maastricht University, Maastricht, The Netherlands

14h30 i-RAGE as a novel carboxymethylad peptide to prevent AGE-induced apoptosis and endoplasmic reticulum stress in vascular smooth muscle cells
   Jean-Sébastien Maltais, Sherbrooke University, Québec, Canada

15h00 What do Dietary Maillard Reaction Products and in vivo AGEs have in common? Are they a risk to human health?
   Frédéric Tessier, Faculté de Médecine, Université Lille 2, Lille, France

15h30 Coffee Break & Posters Session

16h00 Short oral presentations upon abstracts submission

17h00 Round Table Discussion: AGEs 2016: Between Prevention & Therapeutics
   In the presence of Organizers & Speakers from scientific committee

Maillard Reaction Awards 2016

17h30 End of Maillard Reaction 2016