PRELIMINARY PROGRAM

Thursday, June 23rd

09:00 – 09:15  Connection

09:15 - 09:30  Welcome Remarks
Rhian Touyz (Glasgow, UK – Montreal, Canada)
Federica I Wolf (Rome, Italy)

9.30 - 11:30  SESSION 1 Magnesium: Environment, Nutrition and Health
Chairmen: Andre Mazur (Clermont-Ferrand, France)
Stefano Iotti (Bologna, Italy)

09:30 - 09:50  Hypomagnesaemia: biomarker, relevance, clinical implications
Andrea Rosanoff (USA)

9:50 - 10:10  Magnesium in soil and consequences in the food chain
Roberta Cazzola
University of Milano, Italy

10:10 - 10:30  Magnesium: one of the building block of life
Stefano Iotti
Department of Pharmacy and Biotechnology, University of Bologna, Italy

10:30 – 10:45  Coffee / Tea Break

10:45 - 11:05  Mg CNNM4 in NASH
Maria Luz Martinez-Chantar
CIBERehd – Spanish Carlos III Health Institute, Derio, Spain

11:05 - 11:25  Mg and alcohol
Donogh Maguire
Glasgow Royal Infirmary, University of Glasgow, UK

11:25 - 11:40  General Discussion

11:40 - 12:30  Oral Communications
12:30 - 13:30  Lunch Break

13:30 - 13:50  **Keynote Lecture**
Lactate Elicits ER-Mitochondrial Mg2+ Dynamics to Integrate Cellular Metabolism
Muniswamy Madesh
Department of Medicine, University of Texas Health, San Antonio, USA

13:50 - 14:00  Discussion

14:00 – 16:00  **SESSION 2  Magnesium through the lifespan**
Chairman:  **Ligia Dominguez** (Palermo, Italy)
            **Juergen Vormann** (Ismaning, Germany)

14:00 - 14:20  Mg and development
Loren Runnels
Department of Pharmacology
Rutgers, Robert Wood Johnson Medical School
Piscataway, NJ, USA

14:20 - 14:40  Mg and aging
Ligia Dominguez
Palermo, Italy

14:40 - 15:00  Mg in muscles
Sara Castiglioni
University of Milano, Italy

15:00 - 15:20  TBD

15:20 - 15:30  Coffee / Tea Break

15:30 - 16:30  Oral Communications
Friday, June 24th

09:00 - 11:00 SESSION 3
Molecular Mechanisms of Magnesium Homeostasis
Chairmen:
Vladimir Chubanov (Munich, Germany)
Jeroen de Baaji (Nijmegen, NL)

09:00 - 09:20
The molecular appearance and regulatory mechanisms of TRPM7 channel complexes
Vladimir Chubanov
Walther-Straub Institute of Pharmacology and Toxicology, LMU Munich, Germany

09:20 - 09:40
Genetic and drug-induced hypomagnesemia: different cause, same mechanism
Jeroen De Baaij
Radboud institute for molecular life sciences, Nijmegen, the Netherlands

09:40 - 09:55
SLC11
Cristina Manatschal
Department of Biochemistry
University of Zurich, Switzerland

09:55 - 10:10
Coffee / Tea Break

10:10 - 10:30
Chanzyme TRPM7 protects against cardiovascular inflammation and fibrosis
Francisco Rios
Institute of Cardiovascular and Medical Sciences, University of Glasgow, UK

10:30 – 11:00
General Discussion

11:00 - 12:00
Oral Communications

12:00 - 13:00
Lunch Break
SESSION 4
Magnesium in communicable disease

Chairmen: Jeanette AM Maier (Milano, Italy)
Fernando Guerrero-Romero (Durango, Mexico)

13:00 - 13:20 Magnesium, immunity and infectious diseases an updated overview
Michael Lenardo
NIH – Besthesda, USA

13:20 - 13:40 How Pathogens Feel and Overcome Magnesium Limitation
Eduardo A. Groisman
Department of Microbial Pathogenesis, Yale School of Medicine
New Haven, USA

13:40 - 14:00 Counteract bacterial infections: factor SLC11A1 restricts Salmonella growth through magnesium deprivation
Olivier Cunrath
University of Strasbourg, Metals and microorganisms, Illkirch, France

14:00 - 14:20 TBD

14:20 - 14:40 Mg in Sars-Cov-2
Fernando Guerrero-Romero (Durango, Mexico)

14:40 - 15:00 TBD

15:00 - 15:15 General Discussion

15:15 - 15:45 Oral Communications

15:45 - 16:00 Coffee / Tea Break
SESSION 5
Magnesium in noncommunicable diseases
Chairmen:
Oliver Micke (Bielefeld, Germany)
Federica I Wolf (Rome, Italy)
Francisco J. Rios (Glasgow, UK)

16:00 - 16:20
Cognitive impairment
Ka Kahe
Columbia University Irving Medical Center, New York, USA

16:20 - 16:40
Magnesium in oncology an update
Oliver Micke
Klinik für Strahlentherapie und Radioonkologie, Franziskus Hospital
Bielefeld, Germany

16:40 - 17:00
Magnesium in cardiovascular diseases
TBD

17:00 - 17:20
Magnesium in metabolic syndrome and diabetes an update
Juergen Vormann (Ismaning, Germany)

17:20 - 17:50
Oral Communications

17:50 - 18:00
Award Nomination and Closing Ceremony
Chairmen:
André Mazur (Clermont-Ferrand, France)
Rhian Touyz (Glasgow, UK – Montreal, Canada)
Federica I Wolf (Rome, Italy)