OPENING LECTURE
10:15 - 11:00
Cation trafficking is essential for both nucleic acid synthesis and degradation
Wei Yang (Bethesda, MD, USA)

SESSION 1 Magnesium Homeostasis and Status
Chairmen: Andrzej Mazur (Clermont-Ferrand, France)
Federica I. Wolf (Roma, Italy)
11:00 - 11:30
Intestine, the entrance door to magnesium into the body
Vladimir Chobanian (Bologna, Italy)
11:30 - 12:00
Kidney, the key organ of magnesium homeostasis
Jeroen I.E. de Ruijter (Utrecht, Netherlands)
12:00 - 12:30
Factors affecting magnesium status, requirements, and recommended dietary intakes
Ferdinand Niezen (Grand Forks, ND, USA)
12:30 - 13:00
Oral Communications
13:00 - 14:00
Welcome Buffet Lunch

Thursday, March 21st - AFTERNOON
SESSION 3 Magnesium in Epilepsy and Nutrition
Chairmen: Rebecca Castillo (Bethesda, MD, USA)
Qi Dai (Nashville, TN, USA)
09:00 - 09:30
Magnesium metabolism and requirements in adolescents
Cosimo M. Weerasinghe (West Lafayette, IN, USA)
09:30 - 10:00
Magnesium and athletic performance
Stella Lucia Volpe (Philadelphia, PA, USA)
10:00 - 10:40
Oral Communications
10:40 - 11:00
Coffee Break around Posters

SESSION 4 Round Table: Magnesium Distribution, Biophysical status and Assessment
Chairmen: Andrzej Mazur (Clermont-Ferrand, France)
Federica I. Wolf (Roma, Italy)
11:00 - 11:15
Introduction: critical issues on magnesium status and magnesium assessed, from cell to clinic
Andrzej Mazur (Clermont-Ferrand, France)
11:15 - 11:30
The importance of “being” (and measuring) magnesium
Andrzej Mazur
11:30 - 11:45
New small molecule and hybrid fluorescent sensors for the study of intracellular magnesium distribution and mobilization
Daniele Boccella (New York, NY, USA)
11:45 - 12:00
Magnesium clinical detection: results of the Kuwait clinical trial
William B. Weglicki (Washington, DC, USA)
12:00 - 12:15
The PRL phosphatases-CNNMs complex, a magnesium-dependent autoregulate system in the maintenance of intracellular magnesium homeostasis and cellular bioenergetics
Thomas Gudermann (Keio, Japan)
12:15 - 12:45
General discussion and conclusion
12:45 - 13:30
Buffet Lunch

Friday, March 22nd - AFTERNOON
SESSION 7 Magnesium in Neuropathology and Stress
Chairmen: Louise Dry (Leeds, UK)
Gisèle Pickering (Clermont-Ferrand, France)
09:40 - 10:10
Magnesium and vitamin B6 combination on severe stress in healthy adults
Gisèle Pickering (Clermont-Ferrand, France)
10:10 - 10:40
Magnesium in stress and anxiety: lessons from preclinical and clinical studies
Louise Dry (Leeds, UK)
10:40 - 11:10
Mg2+ as a second messenger in early developmental stages of neurons
Kotaro Oka (Kagawa, Japan)
11:10 - 11:40
Oral Communications
11:40 - 12:10
Coffee and Light Lunch around Posters

SESSION 8 Magnesium in Chronic Diseases and Aging
Chairmen: Andrzej Mazur (Clermont-Ferrand, France)
Halima Ouadid-Ahidouch (Amiens, France)
12:10 - 12:40
Magnesium, skeletal muscle health, sarcopenia, osteoporosis and fracture risk
Halima Ouadid-Ahidouch (Amiens, France)
12:40 - 13:10
The lenses of magnesium in the bone
Jeanette AM Maier (Bethesda, MD, USA)
13:10 - 13:30
Oral Communications
13:30 - 13:45
Award Nomination and Closing Ceremony

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