



XIV International Magnesium Symposium



MAGNESIUM IN HEALTH AND DISEASE

Roma, Villa Malta - June 23-24, 2016

Thursday June 23rd, Morning

09:00 – 09:45 **Registration (Sala Musica)**

09:45 - 10:00 **Welcome Remark** [Federica I Wolf](#) (Rome, Italy) (Sala Curci)

SESSION 1 Magnesium Homeostasis, Status and Epidemiologic Data

Chairmen: [André Mazur](#) (Clermont-Ferrand, France)

[Federica I Wolf](#) (Rome, Italy)

10:00 -10:30 **Kidney, the Key Organ of Magnesium Homeostasis**

[René Bindels](#) (Nijmegen, Netherlands)

10:30 - 11:00 **Magnesium Status Evaluation: Where are We Now and What is the Future?**

[André Mazur](#) (Clermont-Ferrand, France)

11:00 - 11:30 **Magnesium Deficiency and Diseases**

[Qi Dai](#) (Nashville, USA)

11.30-11.45 **OC01 – Oral Communication**

Proposed Guidance for the Determination of Status Indicators and Dietary Requirements for Magnesium

[Forrest H Nielsen](#) (Grand Forks, USA)

Breaking News Session

11.45-12.15 **Daily Magnesium Fluxes regulate Cellular Timekeeping and Energy Balance**

[Gerben van Ooijen](#) (Edinburgh, UK)

12:15- 13:30 **Welcome buffet Lunch (villa Malta garden)**



Thursday June 23rd, Afternoon

SESSION 2 **Magnesium in Cardiovascular Diseases**

Chairmen: [Andrea Rosanoff](#) (Pahoa, USA)
 [Rhian Touyz](#) (Glasgow, UK)

13:30- 14:00 **Magnesium and Cardiovascular Biology in Health and Disease**
 [Rhian Touyz](#) (Glasgow, UK)

14:00 - 14:30 **Dietary Magnesium and Cardiovascular Diseases**
 [Jordi Salas-Salvadò](#) (Reus, Spain)

14:30 – 15:00 **Dietary Magnesium and Stroke**
 [Kathryn M Rexrode](#) (Boston, USA)

15.00-15.30 **Magnesium in Coronary Calcification: an Epidemiologic Approach**
 [Adela Hruby](#) (Boston, USA)

15:30-15:45 **OC02 - Oral Communication**
Magnesium Supplementation and Mg Transporters in Pre-hypertensive Subjects
 [Mariana R Rodríguez](#) (Durango, México)

15.45 – 16:15 *Coffee/Tea Break around **Posters** (Sala Archivio)*

SESSION 3 **Magnesium in Metabolic Diseases**

Chairmen: [Fernando Guerrero-Romero](#) (Durango, Mexico)
 [Andrea MP Romani](#) (Cleveland, USA)

16:15 – 16.45 **Mg²⁺ Deficiency Results in Increased Intra-Hepatic Cortisol Levels Through NF-kB Translocation and Inflammatory Cytokines Production**
 [Andrea MP Romani](#) (Cleveland, USA)

16:45 – 17:15 **Magnesium in Metabolic Syndrome**
 [Ka He](#) (Bloomington, USA)

17:15 – 17.45 **Magnesium, Obesity and Metabolic Disease**
 [Fernando Guerrero-Romero](#) (Durango, Mexico)

- 17:45-18.00 **OC03** - Oral Communication
Effect of Magnesium Supplementation on Glucose Metabolism: a Systematic Review and Meta-Analysis of Double-Blind Randomized Controlled Trials
Nicola Veronese (Padova, Italy)
- 18.00-18.15 **OC04** - Oral Communication
Magnesium Supplementation and Counseling on Glycemic and Genomic Outcomes Among Overweight Pregnant Women
Simin Liu (Los Angeles, USA)
- 18.15-18.30 **OC05** - Oral Communication
Chronic Exercise Down-regulates Expression of Magnesium-Responsive Genes in Blood Cells of Diabetic Patients
Fu-Chou Cheng (Taichung, Taiwan)



Friday June 24th, Morning

SESSION 4 Magnesium in Chronic Diseases

Chairmen: [René Bindels](#) (Nijmegen, Netherlands)
[Rhian Touyz](#) (Glasgow, UK)

08:30 – 09:00 **Magnesium and Chronic Kidney Disease**
[Ziad A Massy](#) (Paris, France)

09.00-09.15 **OC06** - Oral Communication
TRPM7 Kinase Domain Modulates Macrophages and T-lymphocytes Infiltrated in Kidneys and Spleens Induced by Aldosterone and Salt Treatment
[Francisco J Rios](#) (Glasgow, United Kingdom)

SESSION 5 Magnesium in Neuropathology and Stress

Chairmen: [Mihai Nechifor](#) (Iasi, Romania)
[Robert Vink](#) (Adelaide, Australia)

09:15 – 09:45 **Magnesium in the Central Nervous System**
[Robert Vink](#) (Adelaide, Australia)

09:45- 10:15 **Magnesium and Depression**
[Miguel Angel Martínez-González](#) (Pamplona, Spain)

10:15– 10:45 **Coffee Break around Posters**

- 10.45- 11.15 **Magnesium in Anxiety and Depression: Lesson from a Rodent Model**
[Ewa Poleszak](#) (*Lublin, Poland*)
- 11.15 – 11.45 **Magnesium Treatment and Stress**
[Elena S Akarachkova](#) (*Moscow, Russia*)
- 11.45-12.00 **OC07- Oral Communication**
The Effects of Magnesium Supplementation on Subjective Stress and Anxiety: a Systematic Review
[Louise Dye](#) (*Leeds, UK*)
- 12.00- 12.15 **OC08 - Oral Communication**
Magnesium in Addictions
[Mihai Nechifor](#) (*Iasi, Romania*)
- 12:15 - 13:30 **Buffet Lunch (Villa Malta Garden)**



Friday June 24th, Afternoon

SESSION 6 Magnesium in Inflammation, Immunity and Cancer

- Chairmen:** [Michael J Lenardo](#) (*Bethesda, USA*)
[Jeanette AM Maier](#) (*Milano, Italy*)
- 13:30 - 14:00 **Magnesium, Transporters, Cells and Inflammation**
[Jeanette AM Maier](#) (*Milano, Italy*)
- 14:00 - 14:30 **Role for Mg²⁺ in Immune Cell Metabolism Revealed by MagT1 Immunodeficiency**
[Michael J Lenardo](#) (*Bethesda, USA*)
- 14:30 - 15:00 **TRPM7 and its Dual Action in Cancer**
[Halima Ouadid-Ahidouch](#) (*Amiens, France*)
- 15.00 - 15.15 **OC09 - Oral Communication**
Magnesium modulates Doxorubicin Activity through Drug Lysosomal Sequestration and Trafficking
[Valentina Trapani](#) (*Rome, Italy*)
- 15.15 - 15.30 **OC10 - Oral Communication**
New Targeted Fluorescent Sensors For the Study of Intracellular Magnesium Distribution and Mobilization
[Daniela Buccella](#) (*New York, USA*)

15:30 – 16.00

Coffee/Tea break around **Posters (Sala Archivio)**

SESSION 7 Magnesium in Gender Medicine

Chairmen:

[Marie José Laires](#) (Lisboa, Portugal)

[Halima Ouadid-Ahidouch](#) (Amiens, France)

16:00 – 16.30

Magnesium in Pregnancy and Childbirth

[Motti Hallak](#) (Hadera, Israel)

16:30 – 17.00

Magnesium and Osteoporosis and Fracture Risk

[Ailsa A Welch](#) (Norwich, UK)

17.00 – 17:15

OC11 - Oral Communication

TRPM7 and MagT1 are Critical in the Osteogenic Differentiation of Human Bone Mesenchymal Stem Cells

[Sara Castiglioni](#) (Milano, Italy)

17:15 – 17:30

OC12 - Oral Communication

Magnesium and its Effect on Human Osteoclasts and Osteoblasts Differentiation

[Béregère Luthringer](#) (Geesthacht, Germany)

17:30 – 17:45

Award Nomination and Closing Ceremony

Chairmen:

[André Mazur](#) (Clermont-Ferrand, France),

[Rhian Touyz](#) (Glasgow, UK)

[Federica I Wolf](#) (Rome, Italy)

