



## XV International Magnesium Symposium



# MAGNESIUM IN HEALTH AND DISEASE

Bethesda - NIH, March 20<sup>th</sup>-22<sup>rd</sup>, 2019

## PRELIMINARY PROGRAM

### Wednesday March 20<sup>th</sup>, Morning

- 09:00 - 10:00      **Registration**
- 10:00 - 10:15      **Welcome Remark**  
*Michael J Lenardo* (NIH - Bethesda, USA), *Federica I Wolf* (Rome, Italy)
- 10:15 - 11:00      **Opening Lecture** Magnesium ion in DNA synthesis  
*Wei Yang* (NIH-Bethesda, USA )

### **SESSION 1**      **Magnesium Homeostasis and Status**

- Chairmen:**      *Andrzej Mazur* (Clermont-Ferrand, France)  
                         *Federica I Wolf* (Rome, Italy)
- 11:00 - 11:30      **Colon, the entrance door of Magnesium into the body**  
                         *Vladimir Chubanov* (Munich, Germany)
- 11:30 - 12:00      **Kidney, the Key Organ of Magnesium Homeostasis**  
                         *Jeroen de Baaij* (Nijmegen, Netherlands)
- 12:00 - 12:30      **Magnesium Status: News and Clues**  
                         *Andrzej Mazur* (Clermont-Ferrand, France)

*Oral Communications:*      *Magnesium homeostasis and status*

- 12:30 - 12:45      **OC01** - Oral Communication  
12:45 - 13:00      **OC02** - Oral Communication

13:00 - 14.00      **Welcome buffet Lunch**

## Wednesday March 20<sup>th</sup>, Afternoon

### **SESSION 2**      **Magnesium in Cardio-metabolic Diseases**

**Chairmen:**      **Rhian Touyz** (Glasgow, UK)  
                         **Andrea Rosanoff** (Paoha, USA)

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

14:30 - 15:00      **Dietary Magnesium and status in Cardio-metabolic Diseases**  
                         **Qi Dai** (Nashville, USA)

15:00 - 15:30      **TBD**

15:30 - 16:00      *Coffee/Tea Break*

*Oral communications:* **Magnesium in Cardio-metabolic Diseases**

16:00 - 16:15      **OC03-** Oral Communication

16:15 - 16:30      **OC04-** Oral Communication

16:30 - 16:45      **OC05-** Oral Communication

16:45 - 17:00      **OC06-** Oral Communication

## Thursday, March 21<sup>st</sup>, Morning

### **SESSION 3**      ***Magnesium Distribution, Biophysical status and Assessment***

**Chairmen:**                      **TBD**

09:00 - 09:30                      ***Stefano Iotti (Bologna, Italy)*** TBC

09:30 - 10:00                      *Mg complex with bioligands* TBD

*Oral communications:* ***Magnesium distribution, biophysical status and assessment***

10:00 - 10:15                      **OC07** - Oral Communication

10:15 - 10:30                      **OC08** - Oral Communication

10:30 – 11:00                      *Coffee Break around* ***Posters***

### **SESSION 4**      ***Magnesium in Epidemiology, Nutrition, and genetic***

**Chairmen:**                      ***Dai Qi (Nashville, USA)***  
***Rebecca Costello (NIH - Bethesda, USA)***

11:00 - 11:30                      **Magnesium and Athletic Performance**  
***Stella Lucia Volpe (Philadelphia, USA)***

11:30 - 12:00                      **TBD**

*Oral communications:* ***Magnesium Epidemiology, Nutrition and Genetic***

12:00 - 12:15                      **OC09** - Oral Communication

12:15 - 12:30                      **OC10** - Oral Communication

12:30 - 13:30                      ***Lunch***

## Thursday, March 21<sup>st</sup>, Afternoon

### **SESSION 5**      **Molecular Biology of Magnesium I**

**Chairmen:**      **Vladimir Chubanov** (Munich, Germany)  
**Andrea Fleig** (Honolulu, USA)

13:30 - 14:00      **Magnesium channels and transporters an overview**  
**Andrea Fleig** (Honolulu, USA)

14:00 - 14:30      **TRPM-Channel kinase activity and cellular signalling**  
**Susanna Zierler** (Munich, Germany)

14:30 – 15:00      **TRPM7-dependent gene transcription**  
**Thomas Gudermann** (Munich, Germany)

15:00 -15:30      *Coffee/Tea break around **Posters***

15:30 - 16:00      **PTP-CNNM-mediated magnesium transport**  
**Michel Tremblay** (Montreal, Canada)

16:00 - 16:30      **Magnesium transporters of SLCA1 family and Mrs2**  
**Gerhard Sponder** (Berlin, Germany)

*Oral communications: **Molecular Biology***

16.30 - 16.45      **OC13** - Oral Communication

16.45 - 17.00      **OC14** - Oral Communication

## Friday, March 22<sup>nd</sup>, Morning

### **SESSION 6**      **Molecular Biology of Magnesium II**

**Chairmen:**      **Michael J Lenardo** (NIH-Bethesda, USA)  
**Andrea Fleig** (Honolulu, USA)

08:30-9:00      **MagT1 and glycosylation**  
**Reid Gilmore** (Worcester, USA)

09:00-9:30      **Mg in XMEN Diseases**  
**Juan C. Ravell** (NIH-Bethesda, USA)

09:30-9:45      **OC15** - Oral Communication

09:45-10:00      **OC16** - Oral Communication

10:00 - 10:30      *Coffee Break around **Posters***

## **SESSION 7**      **Magnesium in Neuropathology and Stress**

**Chairmen:**            **Louise Dye** (Leeds, UK)  
*TBD*

10:30 - 11:00            **Magnesium and Depression**  
*TBD*

11:00 - 11:30            **The Effects of Magnesium Supplementation on Subjective Stress and Anxiety: a Systematic Review**  
**Louise Dye** (Leeds, UK)

*Oral communications: Neuropathology and stress, Mg and dementia*

11:30 - 11:45            **OC17** Oral communication

11:45 - 12:00            **OC18** Oral communication

## **SESSION 8**      **Magnesium in Chronic Diseases and Aging**

**Chairmen:**            **Andrzej Mazur** (Clermont-Ferrand, France)  
**Federica I Wolf** (Roma, Italy)

12:00 - 12:30            **Magnesium, skeletal muscle health, sarcopenia, osteoporosis and fracture risk**  
**Ailsa A Welch** (Norwich, UK)

12:30 – 13:00            **Magnesium in bone metabolism**  
**Jeanette AM Maier** (Milano, Italy)

*Oral communications: Chronic Diseases and Aging*

13:00 - 13:15            **OC19** Oral communication

13:15 - 13:30            **OC20** Oral communication

**13:30 – 13:45 Award Nomination and Closing Ceremony**

**Chairmen:**            **Michael Lenardo** (NIH-Bethesda, USA),  
**Rhian Touyz** (Glasgow, UK)  
**Federica I Wolf** (Rome, Italy)