



**"New Frontiers in Magnesium Research:  
Molecular Mechanisms and Clinical Implications"**  
**XVIII International Magnesium Symposium**  
Research Institute of McGill University Health Centre  
Mc Gill University, Montreal (Canada)

**August, 20-21, 2026**

**PRELIMINARY PROGRAM**

(EST TIME)

**Thursday, August 20, 2026**

08:00 – 08:30      **Registration**

08:30 - 08:45      **Welcome Remarks**

**Rhian M Touyz**

*McGill University Health Centre Montréal, Québec, **Canada***

**Federica Wolf**

*Università Cattolica del Sacro Cuore, Rome, **Italy***

08:45 - 09:10      **KEYNOTE LECTURE - TBD**

**SESSION I**

**Magnesium Homeostasis from Cells to Organs**

09:10 - 09:35      **Adriana Girardi**

*Laboratory of Molecular Cardiology and Genetics, **InCor** (Heart Institute), Hospital das Clínicas, Faculty of Medicine, University of São Paulo (FMUSP), São Paulo, **Brazil***

09:35 - 10:00      **Matthias Wolf**

*Department of Pediatrics, Pediatric Nephrology, University of Michigan, Ann Arbor, MI, **USA***

10:00 - 10:25      **New Insights into the Physiological Roles of TRPM6 and TRPM7**

**Vladimir Chubanov**

*Department of Pharmacology and Toxicology, Walther-Straub Institute, LMU Munich, **Germany***



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**10:25 - 11:00**      ***Coffee Break around Poster Session***

**11:00 - 11:25**      **Kalle Gehring**  
*McGill University, Montreal, Canada*

**11:25 - 11:50**      **Michel L Tremblay**  
*Department of Biochemistry and Goodman Cancer Institute. McGill University, Montreal, Canada*

**11:50 - 12:15**      **Loren Runnels**  
*Department of Pharmacology Rutgers, Robert Wood Johnson Medical School  
Piscataway, NJ, USA*

**12:15 - 12:40**      **Alexey Ryazanov**  
*Department of Pharmacology Rutgers, Robert Wood Johnson Medical School  
Piscataway, NJ, USA*

**12:40 - 13:05**      **Alexander Sobolevsky**  
*Columbia University, New York, USA*

**13:05 - 14:00**      ***Lunch around Poster Session***

**SESSION II**  
**Magnesium in the Prevention & Treatment of Diseases**

**14:00 - 14:25**      **TRPM channels in pancreatic islets**  
**Thomas Gudermann**  
*Walther Straub Institute of Pharmacology and Toxicology, Faculty of Medicine,  
LMU Munich, Germany*

**14:25 - 14:50**      **María Luz Martínez-Chantar**  
*Laboratory of Head, Liver Disease, Spanish Carlos III Health Institute, Derio, Spain*



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- 14:50 - 15:15**     **Chintan V. Shah**  
*Division of Nephrology, Hypertension & Renal Transplantation  
University of Florida – College of Medicine, FL, USA*
- 15:15 - 15:40**     **Eduardo A Groisman**  
*Yale School of Medicine, Department of Microbial Pathogenesis, New Haven, CT, USA*
- 15:40 - 16:05**     **Modeling Calcium and Magnesium balance: Regulation by hormones**  
**Anita T Layton**  
*Department of Applied Mathematics, University of Waterloo, Waterloo, ON, Canada*
- 16:05 - 16:30**     **Coffee Break around Poster Session**
- 16:30 - 17:00**     **Oral Presentations**

**Friday, August 21, 2026**

**SESSION III**

**Magnesium in Cardiovascular and Renal Disorders: New Insights and Clinical Implications**

- 08:30 - 08:55**     **Jim McCormick**  
*Division of Nephrology & Hypertension at Oregon Health & Science University (OHSU),  
Portland, OR, USA*
- 08:55 - 09:20**     **The Mechanism whereby Mg treats Atrial Fibrillation and Heart Failure with Preserved Ejection Fraction**  
**Samuel C Dudley**  
*Lillelei Heart Institute, Minneapolis, MN, USA*
- 09:20 - 09:45**     **Francisco Rios**  
*Research Institute of Mc Gill University Health Centre Montreal, Canada*
- 09:45 - 10:10**     **Jeroen de Baaij**  
*Department of Molecular Life Sciences, Radboud Institute, Nijmegen, the Netherlands*



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- 10:10 - 10:35**     **Lixia Yue**  
*UConn Health (University of Connecticut Health Center), Department of Cell Biology, Pat and Jim Calhoun Cardiology Center, Farmington, CT, USA*
- 10:35 - 11:00**     **Coffee Break around Poster Session**
- 11:00 - 11:25**     **Renal Magnesium Conservation During Lactation**  
**Evan Ray**  
*Renal-Electrolyte Div., University of Pittsburgh, PA, USA*
- 11:25 - 11:50**     **Marta Müller** **TBC**  
*Department of Nephrology, University Hospital Düsseldorf (Universitätsklinikum Düsseldorf - UKD), Düsseldorf, Germany*
- 11:50 - 12:20**     **Oral Presentations**
- 12:20 - 13:30**     **Lunch around Poster Session**
- SESSION IV**  
**Unveiling the Immunomodulatory Power of Magnesium: From Cellular Mechanisms to Clinical Impact**
- 13:30 - 13:55**     **Bebhinn Treanor**  
*Department of Biological Sciences, University of Toronto Scarborough, ON, Canada*
- 13:55 - 14:20**     **Hypomagnesemia in lymphoma patients receiving CAR T Therapy correlates with Immune dysfunction and decreased survival**  
**Thomas Witzig**  
*Mayo Clinic (Department of Hematology, Hematology-Oncology), Rochester, MN, USA*
- 14:20 - 14:45**     **TBD**
- 14:45 - 15:15**     **Oral Presentations**



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**SESSION V Magnesium across the lifespan: from conception to old age**

**15:15 - 15:40**

**Rafael Fissore**

*Veterinary Department, University of Massachusset, NJ, USA*

**15:40 - 16:05**

**From Petri Dish to Patient: Unraveling the Role of Magnesium in the Biology of Aging**

**Jeanette A Maier**

*Dept Biomedical and Clinical Sciences, University of Milan, Italy*

**16:05 - 16:30**

**TBD**

**16:30 - 17:00**

**Oral Presentations**

**17:00 - 17:30**

**Coffee Break around Poster Session**

**17:30 - 18:30**

**SESSION VI Challenges in Magnesium Research: still more questions than answers - where we are & where we are going**  
**A Round Table discussion on issues that are still debated or unexplored and suggestions for the future of Mg research**

**Thomas Gudermann**

*Walther Straub Institute of Pharmacology and Toxicology, Faculty of Medicine, LMU Munich, Germany*

**Stefano Iotti**

*Department of Pharmacy and Biotechnology, University of Bologna, Italy*

**Jeanette A Maier**

*Dept Biomedical and Clinical Sciences, University of Milan, Italy*

**André Mazur**

*Clermont-Ferrand, France*

**Rhian M Touyz**

*McGill University Health Centre Montréal, Québec, Canada*

**Federica Wolf**

*Università Cattolica del Sacro Cuore, Rome, Italy*

**18:30 - 19:00**

**Awards Nomination and Closing Ceremony**